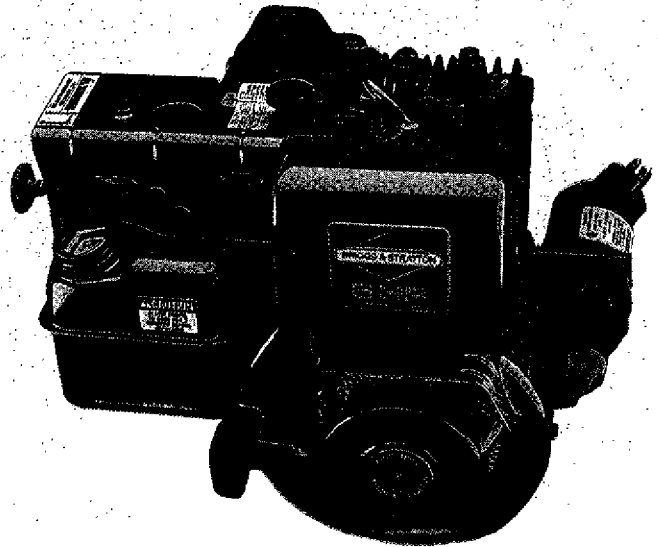
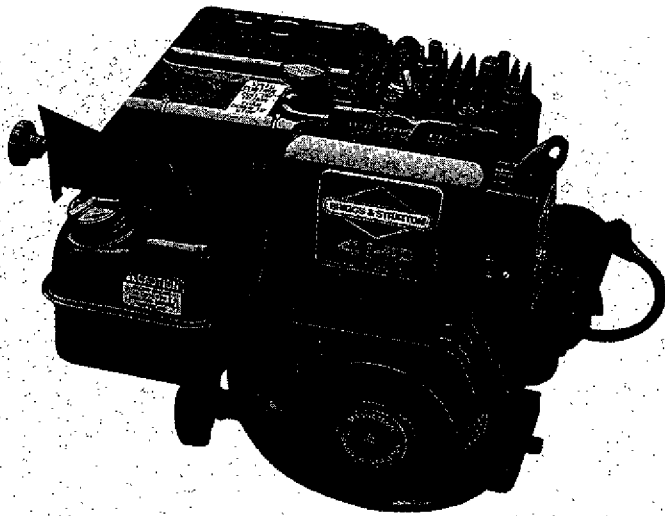




# *Operating and Maintenance Instructions* *Sno/Gard Model Series 130200*



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

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FORM NO. 270616-7/91  
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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

 NOTE: Engine is shipped WITHOUT oil.

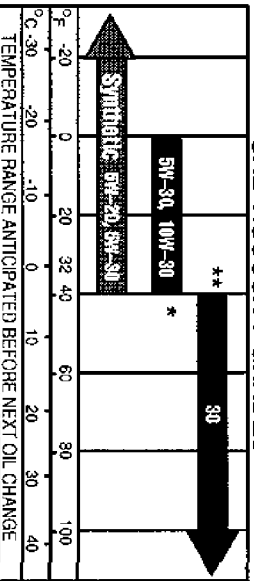
## 4-CYCLE OIL RECOMMENDATIONS

### Change and Add Oil According to Chart below.

We recommend the use of a high quality detergent oil classified "For Service SE, SF, SG," such as Briggs & Stratton 30 weight oil, part no. 100005. Detergent oils keep the engine cleaner and retard the formation of gum and varnish deposits. No special additives should be used with recommended oils.

**NOTE: DO NOT MIX OIL WITH GASOLINE.**

### SAE VISCOSITY GRADES

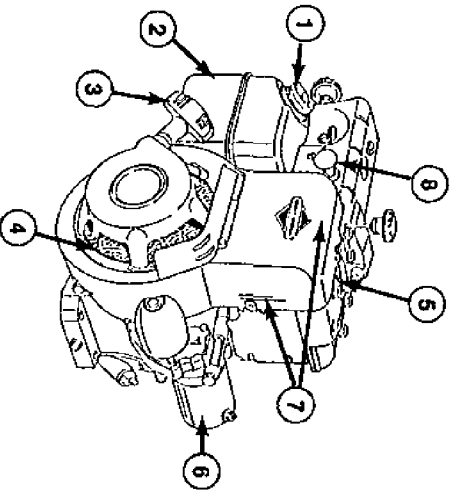
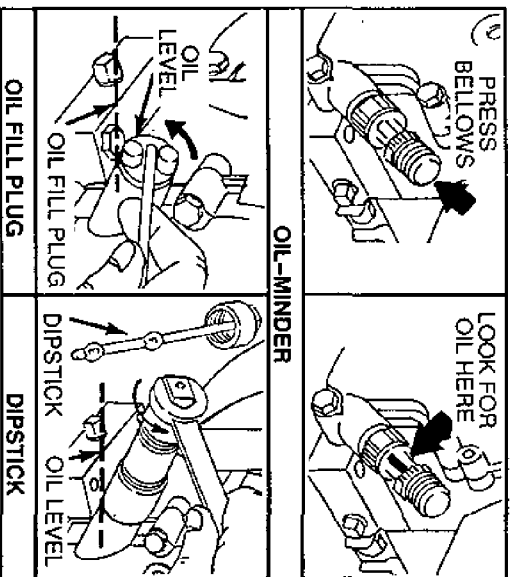


\* Air cooled engines run hotter than automotive engines. Use of multi-viscosity oils (10W-30, etc.) above 40° F (4° C) will result in high oil consumption and possible engine damage. Check oil level more frequently if using these types of oils.

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

## TO FILL CRANKCASE WITH OIL:

Place engine level. Clean area around oil fill. Remove oil fill plug or dipstick. **POUR OIL SLOWLY. DO NOT OVER-FILL.** Capacity is approximately 1.25 pints (21 ounces or 0.6 liters).



1. FUEL FILL
2. FUEL TANK
3. REWIND STARTER
4. ROTATING SCREEN
5. SPARK PLUG WIRE TAB
6. 12V STARTER MOTOR (120 VOLT OPTIONAL)
7. MODEL, TYPE AND CODE NUMBERS
8. KEY SWITCH



## FUEL RECOMMENDATIONS

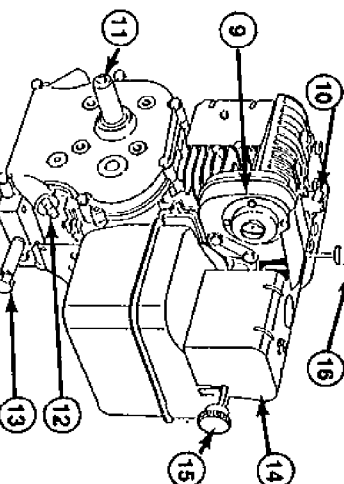
This engine will operate satisfactorily on any gasoline intended for automotive use. A minimum of 77 octane is recommended. **DO NOT MIX OIL WITH GASOLINE.**

Use clean, fresh, lead-free gasoline. Leaded gasoline may be used if lead-free is not available. Use of lead-free gasoline results in fewer combustion deposits and longer valve life. We recommend the use of Briggs & Stratton Gasoline Additive, part no. 5041. 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.**



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



9. MUFFLER
10. SPARK PLUG
11. CRANKSHAFT
12. OIL FILL PLUG
13. OIL DRAIN PLUG
14. HOOD OVER CARBURETOR
15. CHOKE CONTROL
16. THROTTLE CONTROL

# Starting

## TO START ENGINE:



**WARNING:** ALWAYS KEEP HANDS AND FEET CLEAR OF ROTATING MACHINERY.

Start, store and fuel engine in a level position.

DO NOT use a pressurized starting fluid as severe internal damage may occur due to loss of lubrication.

## COLD WEATHER STARTING HINTS

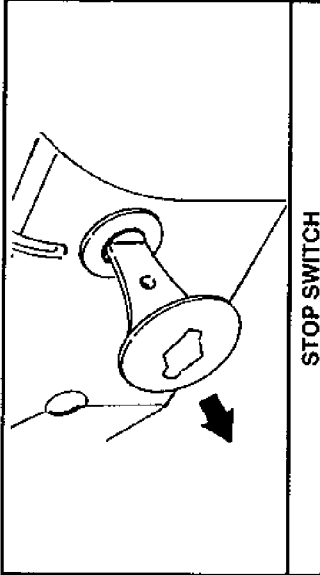
1. Use the correct oil for the temperature expected.
2. De-clutch all possible external loads.
3. Set speed control at part throttle position.
4. A warm battery has much more starting capacity than a cold battery.
5. Do not use gasoline left over from summer. Use fresh winter grade fuel which has higher volatility to improve starting.

## OIL GARD® (Optional Accessory)

OIL GARD® light warns of low oil level. If light flickers or remains on and if engine cannot be started or stopped and cannot be restarted, oil must be added. Fill to FULL mark on dipstick or to overflowing at oil fill plug. Do not over-fill.

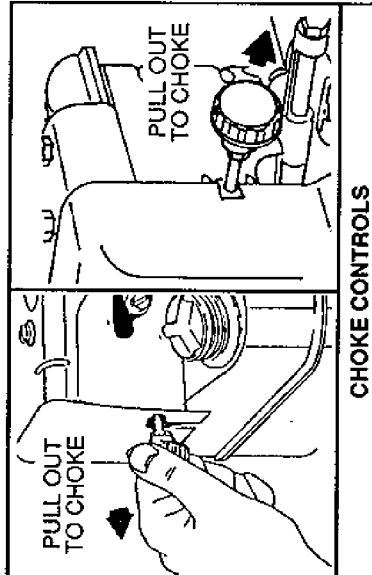
## STOP SWITCH:

Insert key in Switch.



## CHOKO ENGINE:

Move engine choke control as illustrated.



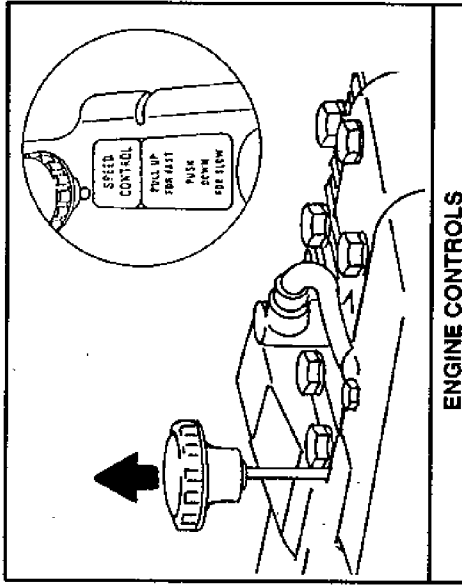
**NOTE:** A warm engine requires less choking than a cold engine.

**NOTE:** If fuel drips out of carburetor while trying to start engine, engine is over-choked. Pull rewind starter handle several times or engage electric starter briefly to crank engine with choke open.

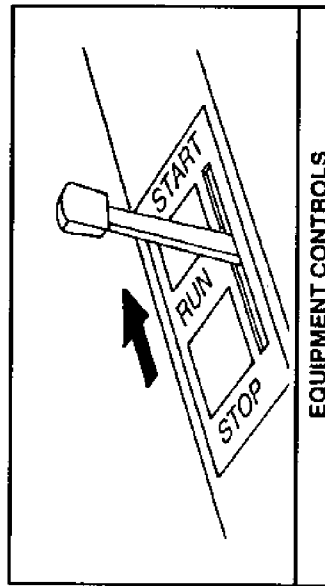


## SET THROTTLE CONTROL:

**MANUAL CONTROL:** Pull engine throttle control knob as illustrated.




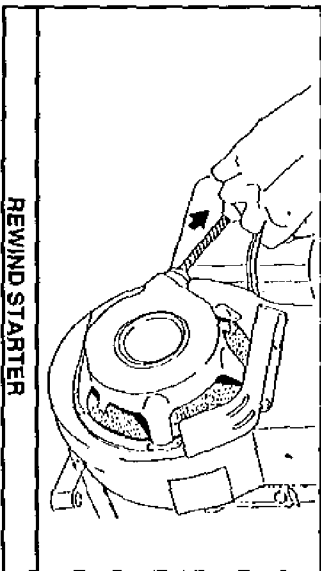
**REMOTE CONTROL:** Move equipment throttle control lever to "RUN," "FAST" OR "START" position.



# Starting & Stopping

## REWIND STARTER

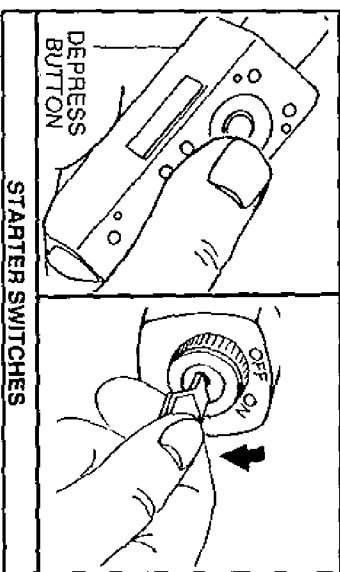
 Grasp starter grip as illustrated and pull slowly until resistance is felt. Then pull cord rapidly to overcome compression, prevent kickback and start engine. Release if necessary with choke opened slightly. When engine starts, open choke gradually.




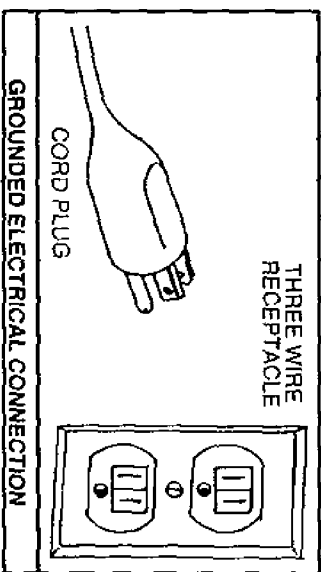
## ELECTRIC STARTER

On engines equipped with 12 volt starting systems, turn key to "START" position or press starter button. On engines equipped with 120 volt starting systems, press "ON" button of conductor cord's integral "ON-OFF" switch. The best starter life is provided by using short starting cycles of several seconds. Prolonged cranking (more than 15 seconds per minute) can damage the starter motor. Allow starter to cool two minutes. Release as soon as engine starts and gradually open choke.


**NOTE:** Battery is supplied by equipment manufacturer and may require charging before use.

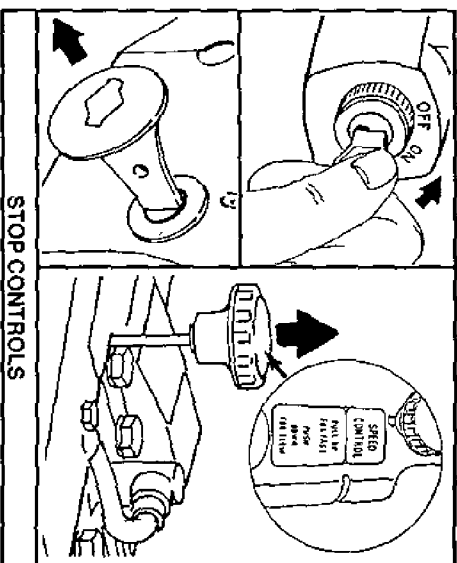



 **CAUTION:** The 120 volt electric starter is equipped with a three-prong plug for your safety. The longer prong in this plug is connected to the starter motor housing. When the starter motor is plugged into a properly grounded receptacle, it will protect the user from shock should the starter motor insulation fail for any reason. If a longer extension cord is used with this starter, it should also have three-prong and three-hole plugs.



## TO STOP ENGINE:

 Move engine control to "OFF" position or equipment control to "SLOW" and then "STOP" position. Turn key to "OFF" position, if so equipped. Do not choke carburetor to stop engine. Backfire or engine damage may result if carburetor is used to stop engine.



 **CAUTION:** Always remove key from switch when leaving equipment unattended or when equipment is not in use.

# Adjustments

## ENGINE AND EQUIPMENT CONTROLS



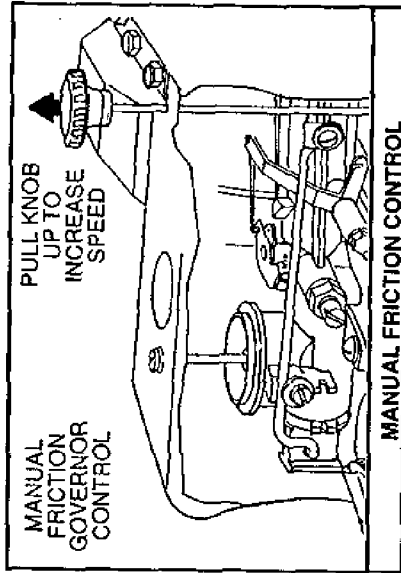
**CAUTION:** The manufacturer of the equipment on which the engine is installed specifies the Top No-Load RPM at which the engine will be operated. DO NOT EXCEED this RPM.

Correct control adjustment is necessary for good engine performance.

**NOTE:** Manual controls require no adjustment.

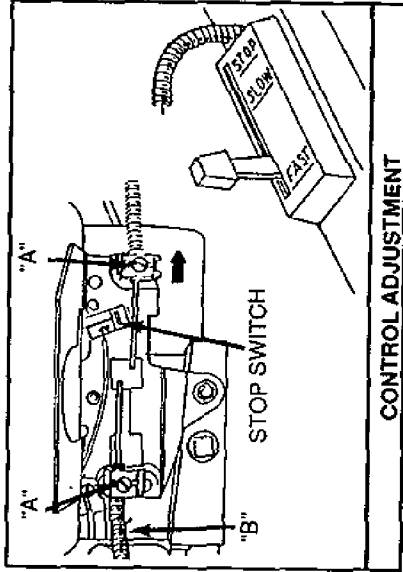
### MANUAL FRICTION CONTROL

Move knob as shown to change engine speed.



## REMOTE CONTROL

Remote control casing and wire "B" are attached to engine at control plate as shown.



## TO ADJUST OPERATION OF REMOTE CONTROL:

If adjustment is needed, move equipment control lever to "FAST" position. Loosen casing clamp screw "A" and move casing and wire "B" to end of travel in direction shown by arrow. Tighten casing clamp screw "A." Check operation of controls after adjustment. Readjust if necessary.

## CARBURETOR ADJUSTMENTS

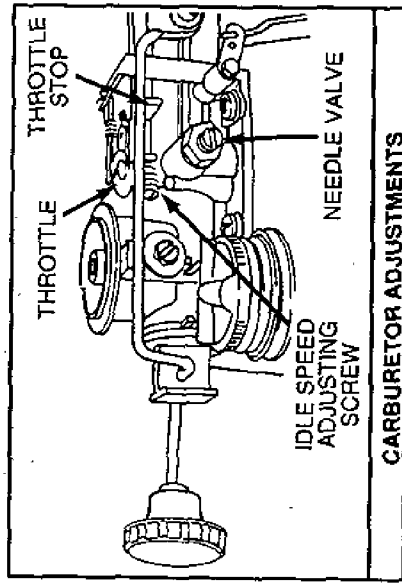
Minor carburetor adjustment may be required to compensate for differences in fuel, temperature, altitude or load. Sno/Gard hood must be assembled to carburetor when running engine.

**NOTE:** Make FINAL ADJUSTMENT at temperatures in which engine operates.

## INITIAL ADJUSTMENT:

Gently turn needle valve clockwise until it just closes. Valve may be damaged by turning it in too far.

Next open the needle valve 1-1/2 turns counterclockwise. This initial adjustment will permit the engine to be started and warmed up (approximately 5 minutes) prior to final adjustment.



## FINAL ADJUSTMENT:

Place equipment control lever in "FAST" position. Turn needle valve in until engine slows (clockwise - lean mixture). Then turn it out past smooth operating point until engine runs unevenly (rich mixture). Now turn needle valve to the midpoint between rich and lean so the engine runs smoothly.

Next, adjust idle RPM. Rotate throttle counterclockwise and hold against stop while adjusting idle speed adjusting screw to obtain 1750 RPM. Release throttle. Engine should accelerate without hesitation or sputtering. If engine does not accelerate smoothly, the carburetor should be readjusted, usually to a slightly richer mixture.

# Maintenance



**CAUTION: TO PREVENT ACCIDENTAL STARTING** when servicing the engine or equipment, always remove the wire from the spark plug and insert in holding tab. Disconnect negative wire from battery terminal, if equipped with 12 volt starting system.



**CHECK OIL LEVEL REGULARLY:** Check after each 5 hours of operation or daily. BE SURE OIL LEVEL IS MAINTAINED.

## GENERAL RECOMMENDATIONS

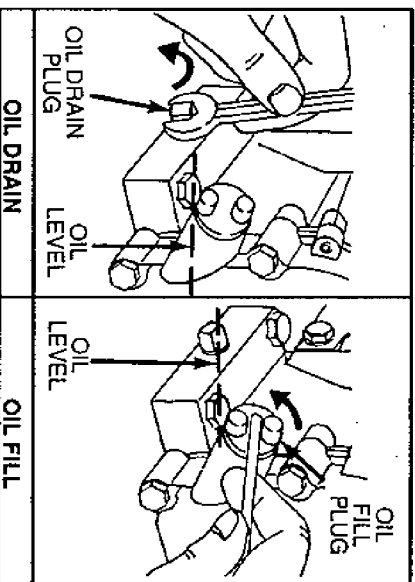
Occasionally place a few drops of oil on governor and throttle linkage and choke. A slight film of oil on these parts will afford additional protection from freezing and corrosion.

After using snow removal equipment, continue to run the engine for about 10 minutes in an area protected from snow. This will give the engine an opportunity to dry out any moisture which has collected.

When equipment is not in operation, provide protection from direct exposure to freezing rain or snow.

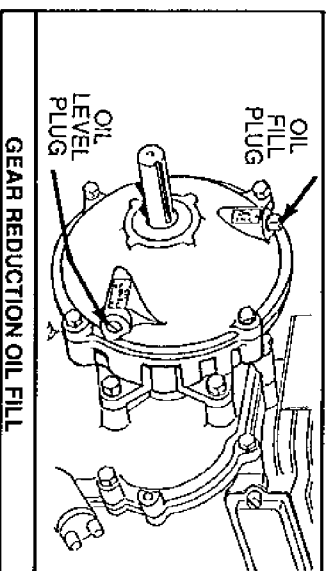
## CHANGE OIL AS RECOMMENDED:

Change oil after first 5 hours of operation. Then, under normal operating conditions, change oil after every 50 hours of operation or every season, whichever occurs first. Change oil after every 25 hours of operation if the engine is operated under heavy load or in high ambient temperatures. Remove oil drain plug and drain oil while engine is warm. Replace drain plug. Remove oil fill plug, oil-minder or dipstick and refill with new oil of correct grade. Replace oil fill plug, oil-minder or dipstick.



## CHANGE OIL (Gear Reduction Option):

Remove oil level plug and oil fill plug. Drain oil after every 100 hours of operation or every season, whichever occurs first. To refill, pour SAE 30 oil into oil fill hole until it runs out level check hole. Replace both plugs. Oil fill plug has a vent hole and must be installed on top of gear case cover.



# Maintenance

## **CLEAN ENGINE:**

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



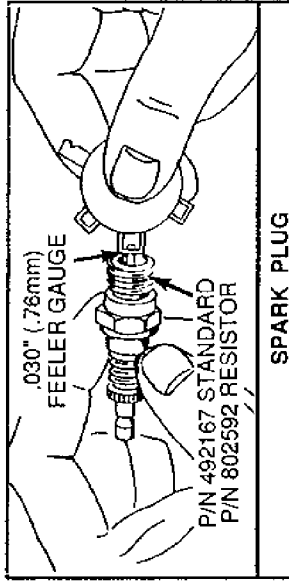
**CAUTION:** To assure smooth operation, keep rack and pinion controls, governor linkage and springs free of debris.



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

## **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.

## **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.

## **REMOVE COMBUSTION DEPOSITS:**

Remove cylinder head every 100-300 hours of operation. Scrape and wire brush the combustion deposits from cylinder, cylinder head, top of piston and around valves. Reassemble gasket and cylinder head. Turn screws down finger tight with three longer screws around exhaust valve, if so equipped. Torque cylinder head screws in a staggered sequence to 140 in.-lbs. (15.82Nm).



# 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
Check Oil Level	●				
Change Oil ♦			● Note 1		
Change Oil (Gear Reduction)				●	
Clean Cooling System				● Note 2	
Inspect Spark Arrestler (Optional Accessory)			●		
Replace or Clean Spark Plug				●	
Clean Combustion Chamber Deposits					●

♦ Change oil after first 5 hours, then after every 50 hours or every season.

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

Note 2: 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



..... Caution



..... Oil



..... Fuel



..... Choke



..... Fast



..... Slow



..... Air Cleaner

# General Information

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

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

## MODEL SERIES 130200

Bore	2-9/16 in. (65.09 mm)
Stroke	2-7/16 in. (61.91 mm)
Displacement	12.57 cu. in. (206.0 cc)
Torque (Max.)	7.66 Ft.-Lbs. @ 3000 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.
Standard Spark plug	492167 (Champion J19LM)
Resistor Spark plug	802592 (Champion RJ19LM)
CLEARANCES	
Spark Plug Gap	.030 in. (.76 mm)
Intake Valve*	.005-.007 in. (.13-.18 mm)
Exhaust Valve*	.009-.011 in. (.23-.28 mm)
* with valve springs installed and piston 1/4 in. (6 mm) past top dead center.	

In some areas, local law requires the use of a resistor spark plug to suppress ignition signals. If an engine was originally equipped with a resistor spark plug, be sure to use the same type of spark plug for replacement.

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

## 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.

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

- While engine is still warm, drain oil from crankcase. Refill with fresh oil.
- Remove spark plug and pour approximately 1/2 ounce (15 ml) of engine oil into the cylinder. Replace spark plug and crank slowly to distribute oil.
- Clean dirt and chaff from cylinder, cylinder head fins, blower housing, rotating screen and muffler areas.
- 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, a Service Center will need model, type and code numbers from your engine.



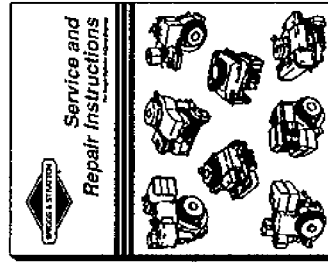
Your nearest service center may be located in the "Yellow Pages™" directory under "Engines, Gasoline." "Gasoline Engines," or similar category. You may also locate the service center in your mailing zip code area by telephoning 1-800-233-3723. There are over 30,000 Authorized Service Centers worldwide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

Authorized Service Centers carry a stock of Original Briggs & Stratton Service Replacement Parts and are equipped with special service tools. Ask for Original Briggs & Stratton Service Replacement Parts which preserve the original design of your engine. Imitation replacement parts offer potential risks in internal construction as well as fit, finish and warranty back-up. 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: Distribution Sales & Service Division.

The shop manual shown here includes "Theories of Operation," common specifications and detailed information covering the adjustment, tuning up and repair of Briggs & Stratton L-head, single cylinder, 4 cycle engines and is available from any Briggs & Stratton Authorized Service Center.



Part No. 270962

# 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 NEGLECT 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;

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
4.971,001	4,720,638	4,430,984	4,205,737
4.939,916	4,719,682	4,414,993	4,189,040
4.915,068	4,694,792	4,414,934	4,188,930
4.909,218	4,684,917	4,372,433	4,181,206
4.895,119	4,633,556	4,355,253	4,178,894
4.889,006	4,630,498	4,353,335	4,168,808
4.875,448	4,622,935	4,345,885	4,168,288
4.823,752	4,522,080	4,306,522	4,090,345
4.819,593	4,520,288	4,270,509	4,068,636
4.817,577	4,512,499	4,233,534	4,055,898

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)			
4.048,788	3,991,152	3,901,199	3,828,212
4.048,787	3,981,289	3,888,450	3,827,307
4.037,389	3,971,353	3,885,547	3,823,700
4.031,872	3,970,913	3,882,336	3,818,586
4.023,550	3,968,854	3,875,438	3,796,277
4.014,302	3,961,724	3,874,551	3,796,075
4.014,195	3,958,906	3,863,614	3,796,027
4.013,105	3,955,904	3,857,545	3,782,139
4.011,533	3,951,223	3,841,425	3,782,084
4.006,616	3,916,280	3,831,268	3,678,366

**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.**

**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 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 List 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."

Briggs & Stratton Corporation  
F. P. Stratton, Jr.  
Chairman and Chief Executive officer

**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-Magneton® ignition***	1 year-engine
All Vanguard and I/C® engines.	2 year-engine*** 5 year-Magneton® ignition***	2 year-engine*** 5 year-Magneton® 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 Magneton® 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.**