

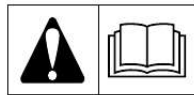


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You can read the recommendations in the user guide, the technical guide or the installation guide for BRIGGS & STRATTON 20F400. You'll find the answers to all your questions on the BRIGGS & STRATTON 20F400 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

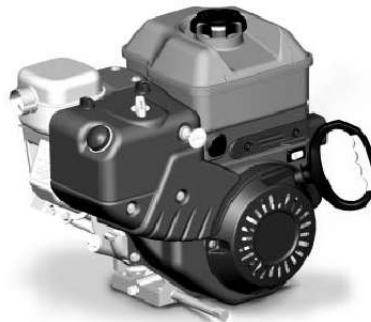
User manual BRIGGS & STRATTON 20F400
User guide BRIGGS & STRATTON 20F400
Operating instructions BRIGGS & STRATTON 20F400
Instructions for use BRIGGS & STRATTON 20F400
Instruction manual BRIGGS & STRATTON 20F400

120000, 150000, 200000, 210000



PowerBuilt
SNOW

- (GB) *Operating & Maintenance Instructions*
- (D) *Betriebsanleitung & Wartungsvorschriften*
- (DK) *Drifts- og vedligeholdelsesvejledning*
- (E) *Instrucciones de Mantenimiento & Operación*
- (F) *Instructions d'utilisation et de maintenance*
- (GR) *Οδηγίες Λειτουργίας & Συντήρησης*
- (I) *Istruzioni per l'uso e la manutenzione*
- (N) *Anvisninger for bruk og vedlikehold*
- (NL) *Gebruiksaanwijzing*
- (P) *Instruções de operação e de manutenção*
- (S) *Instruktionsbok*
- (SF) *Käyttö & Huolto-ohjeet*



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Manual abstract:

S.A. Fig. @@2 Fig. @@@@1 TECHNICAL INFORMATION The power ratings for an individual engine model are initially developed by starting with SAE (Society of Automotive Engineers) code J1940 (Small Engine Power & Torque Rating Procedure) (Revision 2002 05). Given both the wide array of products on which our engines are placed, and the variety of environmental issues applicable to operating the equipment, it may be that the engine you have purchased will not develop the rated horsepower when used in a piece of power equipment (actual on site" power). This difference is due to a variety of factors including, but not limited to, the following: differences in altitude, temperature, barometric pressure, humidity, fuel, engine lubrication, maximum governed engine speed, individual engine to engine variability, design of the particular piece of power equipment, the manner in which the engine is operated, engine run in to reduce friction and clean out of combustion chambers, adjustments to the valves and carburetor, and other factors. The power ratings may also be adjusted based on comparisons to other similar engines utilized in similar applications, and will therefore not necessarily match the values derived using the foregoing codes. SAFETY PRECAUTIONS BEFORE OPERATING ENGINE Read entire Operating & Maintenance Instructions AND the instructions for the equipment this engine powers.* Failure to follow instructions could result in serious injury or death.

* Briggs & Stratton does not necessarily know what equip ment this engine will power. For that reason, you should carefully read and understand the operating instructions for the equipment on which your engine is placed. Power BuiltE Snow Models Power Ratings 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Snow hood fasteners to access spark plug Muffler Spark plug * Primer bulb Engine Model Type Code xxxxxx xxxxxx xxxxxxxx Low oil fill Oil drain Choke control Push / Pull safety key Stop switch Rope handle Fuel fill Dipstick / Oil fill Electric start button Power receptacle Electric starter THE OPERATING & MAINTENANCE INSTRUCTIONS CONTAIN SAFETY INFORMATION TO: Make you aware of hazards associated with engines Inform you of the risk of injury associated with those hazards, and Tell you how to avoid or reduce the risk of 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. GENERAL INFORMATION In the state of California, OHV Model Series 120000 engines are certified by the California Air Resources Board to meet emissions standards for 125 hours; Model Series 150000, 200000 and 210000 for 250 hours.

Such certification does not grant the purchaser, owner or operator of this engine any additional warranties with respect to the performance or operational life of this engine. This engine is warranted solely according to the product and emissions warranties stated elsewhere in this manual. Record your engine Model, Type and Code numbers here for future use. Record your date of purchase here for future use. TUNE UP SPECIFICATIONS Power BuiltE Snow Models Bore

.....
.....
.....
.....
68 mm (2.677 in.) Stroke
.....
.....
. 56 mm (2.200 in.) Displacement ..
.....
.....
..... 206 cc (12.48 cu. in.) Bore ..
.....
.....
.....
..... 75 mm (2.970 in.) Stroke
.....
.....
.....
56 mm (2.200 in.) Displacement
.....
..... 249 cc (15.
22 cu. in.) Bore
.....
.....
... 79 mm (3.120 in.
) Stroke
.....
.....
..... 62 mm (2.
438 in.) Displacement
.....
... 305 cc (18.64 cu. in.) Bore
.....
.....

.....
.. 84 mm (3.300 in.) Stroke

.....
.....
..... 62 mm (2.438 in.)

) Displacement

.....
.. 342 cc (20.85 cu. in.)

) Valve clearance with valve springs installed and piston 6 mm past top dead center. Check when engine is cold. Intake

..... 0.10 0.15 mm (0.
004 0.006 in.) Exhaust ...

.....
..... 0.23 0.28 mm (0.009 0.

011 in.) Armature air gap

36 mm (0.010 0.014 in.) Spark plug gap ..

.....
..... 0.

76 mm (0.030 in.) Model Series 120000 Model Series 150000 WARNING The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. Model Series 200000 Hazard Symbols and Meanings Model Series 210000 Fire Explosion Shock Hot Surface Kickback Toxic Fumes Moving Parts International Symbols and Meanings Safety Alert Choke Oil Fuel Read Operator's Manual On Off Stop Fuel Shutoff 1 WARNING Starting engine creates sparking. Sparking can ignite nearby flammable gases. Explosion and fire could result. If there is natural or LP gas leakage in area, do not start engine. Do not use pressurized starting fluids because vapors are flammable. WARNING Rapid retraction of starter cord (kickback) will pull hand and arm toward engine faster than you can let go. Broken bones, fractures, bruises or sprains could result.

When starting engine, pull cord slowly until resistance is felt, then pull rapidly. Remove all external equipment/engine loads before starting engine. Direct coupled equipment components such as, but not limited to, blades, impellers, pulleys, sprockets, etc., must be securely attached. OIL RECOMMENDATIONS

CAUTION: Engine shipped from Briggs & Stratton without oil.

Before starting engine, fill with oil. Do not over fill. Use a high quality detergent oil classified For Service SF, SG, SH, SJ" or higher. Briggs & Stratton strongly recommends the use of synthetic oil for operating temperatures below 32 F (0 C). If synthetic oil is unavailable, Briggs & Stratton non synthetic 5W 30 P/N 100030C (32 oz.

) is an acceptable substitute. Use no special additives with recommended oils. Do not mix oil with gasoline. Choose the SAE viscosity grade of oil from this chart that matches the starting temperature anticipated before the next oil change. WARNING Gasoline and its vapors are extremely flammable and explosive. Fire or explosion can cause severe burns or death. 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. Do not overfill fuel tank. Fill tank to approximately 1 1/2 inches below top of neck to allow for fuel expansion.

Keep gasoline away from sparks, open flames, pilot lights, heat, and other ignition sources. Check fuel lines, tank, cap, and fittings frequently for cracks or leaks.



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Replace if necessary. **WHEN STARTING ENGINE** Make sure spark plug, muffler, fuel cap are in place. Do not crank engine with spark plug removed. If fuel spills, wait until it evaporates before starting engine. If engine floods, set choke to OPEN/RUN position, 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. Do not choke carburetor to stop engine. **WHEN TRANSPORTING EQUIPMENT** Transport with fuel tank EMPTY.

WHEN STORING GASOLINE OR EQUIPMENT WITH FUEL IN TANK Store away from furnaces, stoves, water heaters or other appliances that have pilot light or other ignition source because they can ignite gasoline vapors. SAE Viscosity Grades **WARNING** Running engines produce heat. Engine parts, especially muffler, become extremely hot. Severe thermal burns can occur on contact. Combustible debris, such as leaves, grass, brush, etc. can catch fire. Allow muffler, engine cylinder and fins to cool before touching. Remove accumulated combustibles from muffler area and cylinder area. Install and maintain in working order a spark arrester before using equipment on forest covered, grass covered, brush covered unimproved land. The state of California requires this (Section 4442 of the California Public Resources Code).

Other states may have similar laws. Federal laws apply on federal land. * F-20 C-30 0 -20 20 -10 32 40 0 * 60 10 20 80 30 100 40 Air cooled engines run hotter than automotive engines. The use of non synthetic multi viscosity oils (5W 30, 10W 30, etc.) in temperatures above 40 F (4 C) will result in higher than normal oil consumption. When using a multi viscosity oil, check oil level more frequently. Note: Synthetic oil meeting ILSAC GF 2, API certification mark and API service symbol (shown at left) with SJ/CF ENERGY CONSERVING" or higher, is an acceptable oil at all temperatures. Use of synthetic oil does not alter required oil change intervals. Oil Capacity: Model 120000/150000 series . . .

. 0.5 liter (18 oz.)
) Model 200000/210000 series
. 0.

84 liter (28 oz.) **WARNING** Rotating parts can contact or entangle hands, feet, hair, clothing, or accessories. Traumatic amputation or severe laceration can result. Operate equipment with guards in place. Keep hands and feet away from rotating parts. Tie up long hair and remove jewelry. Do not wear loose fitting clothing, dangling drawstrings or items that could become caught. Fig. 2 Place engine level and clean around oil fill . Remove dipstick , wipe with clean cloth , insert and tighten down again.

Remove dipstick and check oil level. Oil should be at FULL mark . If oil is required, add slowly . Do not over fill. OR Remove oil filler plug . Oil should be full to overflowing . Tighten dipstick or oil filler plug firmly before starting engine. Check oil level. **WARNING** Unintentional sparking can result in fire or electric shock. Unintentional start up can result in entanglement, traumatic amputation, or laceration.

BEFORE REPAIRS PERFORMING ADJUSTMENTS OR WARNING Engines give off carbon monoxide, an odorless, colorless, poison gas. Breathing carbon monoxide can cause nausea, fainting or death. Start and run engine outdoors. Do not start or run engine in enclosed area, even if doors or windows are open. Disconnect spark plug wire and keep it away from spark plug.

WHEN TESTING FOR SPARK Use approved spark plug tester. Do not check for spark with spark plug removed. **2 FUEL RECOMMENDATIONS** Use clean, fresh, lead free, regular gasoline with a minimum of 85 octane. Leaded gasoline may be used if it is commercially available and if unleaded is unavailable. Purchase fuel in quantity that can be used within 30 days.

See storage instructions. In U.S.A. leaded gasoline may not be used. 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. If any undesirable operating symptoms occur, use gasoline with a lower percentage of alcohol or ether. This engine is certified to operate on gasoline. Exhaust Emission Control System: EM (Engine Modifications).

Do not use gasoline which contains Methanol. Do not mix oil with gas brush or compressed air. If muffler is equipped with spark arrester screen, remove spark arrester screen for cleaning and inspection. Replace if damaged. To assure smooth operation, keep governor linkage, springs, controls, and rewind housing free of debris. **3 SPARK PLUG SERVICE** Fig. 7 Clean/replace spark plug every 100 hours or every season, whichever occurs first. Spark plug wrench is available from any Authorized Briggs & Stratton Service Dealer. Spark plug gap should be .76 mm or 0.

030 in. **STORAGE** 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. For engine protection, we recommend use of Briggs & Stratton Fuel Stabilizer available from an Authorized Briggs & Stratton Service Dealer. Mix stabilizer with fuel in fuel tank or storage container. Run engine for a short time to circulate stabilizer through carburetor.

Engine and fuel can be stored up to 24 months. Note: If stabilizer is not used or if engine is operating on gasoline containing alcohol, e.g. gasohol, remove all fuel from tank and run engine until it stops from lack of fuel. 1.

Change oil. 2. Remove spark plug and pour about 15 ml (1/2 oz) of engine oil into cylinder. Replace spark plug and crank slowly to distribute oil. 3. Clean chaff and debris from cylinder and cylinder head fins, under finger guard and behind muffler. 4. 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. **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. When you purchase equipment powered by a Briggs & Stratton engine, you are assured of highly skilled, reliable service at more than 30,000 Authorized Service Dealers world wide, including more than 6,000 Master Service Technicians. Look for these signs wherever Briggs & Stratton service is offered. You may locate your nearest Authorized Briggs & Stratton Service Dealer in our dealer locator map on our web site www.briggsandstratton.com or in the Yellow Pages™ directory under Lawn Mowers, "Engines, Gasoline" or Gasoline Engines," or similar TM category.

Note: Walking fingers logo and Yellow Pages" are registered trademarks in various jurisdictions. An illustrated shop manual includes Theories of Operation," common specifications and detailed information covering adjustment, tune up and repair of Briggs & Stratton OHV, single cylinder, 4 cycle engines.



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Insist on Genuine Briggs & Stratton replacement parts with our logo on the box and/or part.
1. Remove safety key and choke control. 2. Spark plug is revealed. Installing snow hood 1.
3. Tighten screws. 4. Connect choke control knob with choke shaft on carburetor. 5. 5041 Resistor spark plug

100030C Oil pump kit (uses standard electric drill)

992030 Fuel stabilizer (4.2 oz., 125 ml bottle)

5041 Resistor spark plug

491055 Long life platinum spark plug

5066A Spark tester

19368 Spark plug wrench

89838 Maintenance Kit (Model 120000)

5113A Maintenance Kit (Model 200000/210000)

5112A Repair Manual

@@@@@@@@@EPA. @@@@@@@@@@@@@@@@@@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 B&S Service Representative at 1 414 259 5262.

The emission warranty is a defects warranty. Defects are judged on normal engine performance. The warranty is not related to an in use 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 B&S engine warranty for non regulated engines found in the Operating and Maintenance Instructions.

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) Carburetor and internal parts Fuel Pump b. Air Induction System Air cleaner Intake manifold c.

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 B&S 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. 3. 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 B&S Service Dealer. For emissions warranty service contact your nearest Authorized B&S Service Dealer as listed in the "Yellow Pages" under Engines, Gasoline, "Gasoline Engines," Lawn Mowers, "or similar category. 4. Claims and Coverage Exclusions Warranty claims shall be filed in accordance with the provisions of the B&S Engine Warranty Policy. Warranty coverage shall be excluded for failures of Warranted Parts which are not original B&S parts or because of abuse, neglect or improper maintenance as set forth in the B&S Engine Warranty Policy.

B&S is not liable to cover failures of Warranted Parts caused by the use of add on, non original, or modified parts. 5. Maintenance 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 B&S Operating and Maintenance Instructions. 6. Consequential Coverage Coverage hereunder shall extend to the failure of any engine components caused by the failure of any Warranted Part still under warranty. Look For Relevant Emission Durability Period and Air Index Information On Your Engine Emission Label Engines that are certified to meet the California Air Resources Board (CARB) Tier 2 Emission Standards must display information regarding the Emissions Durability Period and the Air Index. Briggs & Stratton makes this information available to the consumer on our emission labels.

The engine label will indicate certification information. The Emission Durability Period describes the number of hours of actual running time for which the engine is certified to be emission compliant, assuming proper maintenance in accordance with the Operating & Maintenance Instructions. The following

categories are used: *Moderate:Engine is certified to be emission compliant for 125 hours of actual engine running time. Intermediate:Engine is certified to be emission compliant for 250 hours of actual engine running time. Extended:Engine is certified to be emission compliant for 500 hours of actual engine running time.*

For example, a typical walk behind lawn mower is used 20 to 25 hours per year. Therefore, the Emission Durability Period of an engine with an intermediate rating would equate to 10 to 12 years. The Air Index is a calculated number describing the relative level of emission for a specific engine family. The lower the Air Index, the cleaner the engine. This information is displayed in graphical form on the emission label.

After July 1, 2000 certain Briggs & Stratton engines will be certified to meet the United States Environmental Protection Agency (USEPA) Phase 2 emission standards. For Phase 2 certified engines, the Emissions Compliance Period referred to on the Emissions Compliance label indicates the number of operating hours for which the engine has been shown to meet Federal emission requirements. For engines less than 225 cc displacement, Category C = 125 hours, B = 250 hours and A = 500 hours. For engines of 225 cc or more, Category C = 250 hours, B = 500 hours and A = 1000 hours. The displacement of Model Series 120000 engine is 206 cc, Model Series 200000 engine is 249 cc, Model Series 200000 engine is 305 cc, Model Series 210000 engine is 342 cc. After July 1, 2000, Look For Emissions Compliance Period On Engine Emissions Compliance Label This is a generic representation of the emission label typically found on a certified engine. 5 BRIGGS & STRATTON ENGINE OWNER WARRANTY POLICY Effective July 1, 2004 replaces all undated Warranties and all Warranties dated before July 1, 2004 Briggs & Stratton Corporation will repair or replace, free of charge, any part(s) of the engine that is defective in material or workmanship or both.



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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 stated below. For warranty service, find the nearest Authorized Service Dealer in our dealer locator map at www.briggsandstratton.com.

or by calling 1-800-233-3723, or as listed in the Yellow Pages™. 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 INCIDENTAL OR CONSEQUENTIAL DAMAGES ARE EXCLUDED TO THE EXTENT EXCLUSION IS PERMITTED BY LAW. Some states or countries do not allow limitations on how long an implied warranty lasts, and some states or countries 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 and country to country. LIMITED WARRANTY OUR PRODUCT VanguardE ELSE I/Cr Industrial PlusE IntekE (Sleeve Bore) ForceE IntekE (Kool Bore) Power BuiltE OHV Quantumr QuattroE Q45E SprintE ClassicE Eteke WARRANTY PERIOD* Consumer Use Commercial Use * 2 years 2 years 1 year 2 years 90 days 1 year 90 days 1 year Note the following special warranty periods: 2 years for Classic™ engines in the European Union and Eastern European countries, for all consumer products in the European Union, and for emission control systems on engines certified by EPA and CARB. 5 years for consumer use, 90 days for commercial use of Touch-N-Mow starter on Quantum and Intek™ engines. Engines used in competitive racing or on commercial or rental tracks are not warrantied.

The warranty period begins on the date of purchase by the first retail consumer or commercial end user, and continues for the period of time stated in the table above. "Consumer use" means personal residential household use by a 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. NO WARRANTY REGISTRATION IS NECESSARY TO OBTAIN WARRANTY ON BRIGGS & STRATTON PRODUCTS. SAVE YOUR PROOF OF PURCHASE RECEIPT. IF YOU DO NOT PROVIDE PROOF OF THE INITIAL PURCHASE DATE AT THE TIME WARRANTY SERVICE IS REQUESTED, THE MANUFACTURING DATE OF THE PRODUCT WILL BE USED TO DETERMINE THE WARRANTY PERIOD. ABOUT YOUR ENGINE 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. @@@@ Improper maintenance: The life of an engine depends upon the conditions under which it operates, and the care it receives. Some applications, such as tillers, pumps and rotary mowers, are very often used in dusty or dirty conditions, which can cause what appears to be premature wear. Such wear, when caused by dirt, dust, spark plug cleaning grit, or other abrasive material that has entered the engine because of improper maintenance, is not covered by warranty. This warranty covers engine related defective material and/or workmanship only, and not replacement or refund of the equipment to which the engine may be mounted. Nor does the warranty extend to repairs required because of: 1. PROBLEMS CAUSED BY PARTS THAT ARE NOT ORIGINAL BRIGGS & STRATTON PARTS.

2. Equipment controls or installations that prevent starting, cause unsatisfactory engine performance, or shorten engine life. (Contact equipment manufacturer.) 3. Leaking carburetors, clogged fuel pipes, sticking valves, or other damage, caused by using contaminated or stale fuel. (Use clean, fresh, lead free gasoline and Briggs & Stratton Fuel 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.

) OIL GARD may not shut down running engine. Engine damage may occur if oil level is not properly maintained. Read Operating & Maintenance Instructions. 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 5,548,955 5,546,901 5,445,014 5,503,125 5,501,203 5,497,679 5,320,795 5,301,643 5,271,363 5,269,713 5,265,700 the Oil Foam element or the foam pre cleaner, and replace the cartridge.) Read Operating & Maintenance Instructions.

7. Parts damaged by over speeding, 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 Operating & Maintenance Instructions. 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, over speeding or other abuse in operation. 9. A bent or broken crankshaft, caused by striking a solid object with the cutter blade of a rotary lawn mower, or excessive v belt tightness. 10. Routine tune up or adjustment of the engine.

11. Engine or engine component failure, i.e., combustion chamber, valves, valve seats, valve guides, or burned starter motor windings, caused by the use of alternate fuels such as, liquified petroleum, natural gas, altered gasolines, etc. Warranty is available only through service dealers which have been authorized by Briggs & Stratton Corporation. your nearest Authorized Service Dealer is listed in the Yellow Pages™ of your telephone directory under Engines, Gasoline" or Gasoline Engines," Lawn Mowers," or similar category.



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5,243,878 5,235,943 5,234,038 5,228,487 5,197,426 5,197,425 5,197,422 5,191,864 5,188,069 5,186,142 5,150,674 5,138,996 5,086,890 5,070,829
5,058,544 5,040,644 5,009,208 4,996,956 4,977,879 4,977,877 4,971,219 4,895,119 4,875,448 4,819,593 4,720,638 4,719,682 4,633,556 4,630,498 4,522,080
4,520,288 4,512,499 4,453,507 4,430,984 D 476,629 D 457,891 D 368,187 D 375,963 D 309,457 D 372,871 D 361,771 D 356,951 D 309,457 D 308,872 D
308,871 Briggs & Stratton Engines Are Made Under One Or More Of The Following Patents: Design D 247,177 (Other Patents Pending) 5,803,035
6,012,420 6,145,487 6,325,036 6,520,141 6,691,683 5,765,713 5,992,367 6,142,257 6,311,663 6,495,267 6,647,942 5,732,555 5,904,124 6,135,426 6,284,123
6,494,175 6,622,683 5,645,025 5,894,715 6,116,212 6,263,852 6,472,790 6,615,787 5,642,701 5,887,678 6,105,548 6,260,529 6,460,502 6,617,725 5,628,352
5,852,951 6,347,614 6,242,828 6,456,515 6,603,227 5,619,845 5,843,345 6,082,323 6,239,709 6,382,166 6,595,897 5,606,948 5,823,153 6,077,063 6,237,555
6,369,532 6,595,176 5,606,851 5,819,513 6,064,027 6,230,678 6,356,003 6,584,964 5,605,130 5,813,384 6,040,767 6,213,083 6,349,688 6,557,833 5,497,679
5,809,958 6,014,808 6,202,616 6,347,614 6,542,074 6 Fig. 4 Fig. 5 Fig. 6 Fig.

7 Fig. 8.



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