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You can read the recommendations in the user guide, the technical guide or the installation guide for BRIGGS & STRATTON 85400. You'll find the answers to all your questions on the BRIGGS & STRATTON 85400 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 85400
User guide BRIGGS & STRATTON 85400
Operating instructions BRIGGS & STRATTON 85400
Instructions for use BRIGGS & STRATTON 85400
Instruction manual BRIGGS & STRATTON 85400



- en** Operator's Manual
- bg** Инструкции за експлоатация
- cs** Návod k obsluze
- et** Kasutusjuhend
- hr** Priručnik za operatera
- hu** Kezelési útmutató
- it** Naudojimo instrukcija
- lv** Operatora rokasgrāmata
- pl** Instrukcja obsługi
- ro** Manual de utilizare
- ru** Руководство по эксплуатации
- sl** Priločnik za uporabo

Model	50000	Vanguard™
	80000	
	110000	
	130000	
	180000	
	230000	
	240000	



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English	Bългарски	Čeština	eesti keel	Hrvatski	Magyar	Lietuvių	Latviešu	Polski	Română	Русский	Slovenčina
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Manual abstract:

NOTICE: This engine was shipped from Briggs & Stratton without oil. Before you start the engine, make sure you add oil according to the instructions in this manual. If you start the engine without oil, it will be damaged beyond repair and will not be covered under warranty. The gross power rating for individual gas engine models is labeled in accordance with SAE (Society of Automotive Engineers) code J1940 (Small Engine Power & Torque Rating Procedure), and rating performance has been obtained and corrected in accordance with SAE J1995 (Revision 2002-05). Torque values are derived at 3060 RPM; horsepower values are derived at 3600 RPM. Actual gross engine power will be lower and is affected by, among other things, ambient operating conditions and engine-to-engine variability. Given both the wide array of products on which engines are placed and the variety of environmental issues applicable to operating the equipment, the gas engine will not develop the rated gross power when used in a given piece of power equipment (actual "on-site" or net power). This difference is due to a variety of factors including, but not limited to, accessories (air cleaner, exhaust, charging, cooling, carburetor, fuel pump, etc.), application limitations, ambient operating conditions (temperature, humidity, altitude), and engine-to-engine variability. Due to manufacturing and capacity limitations, Briggs & Stratton may substitute an engine of higher rated power for this Series engine.

Gasoline and its vapors are extremely flammable and explosive. Turn engine off and let engine cool at least 2 minutes before removing the fuel cap. To allow for expansion of the gasoline, do not fill above the bottom of the fuel tank neck. Keep gasoline away from sparks, open flames, pilot lights, heat, and other ignition sources. If fuel spills, wait until it evaporates before starting engine.

Do not crank engine with spark plug removed. If engine floods, set choke (if equipped) to OPEN/RUN position, move throttle (if equipped) to FAST position and crank until engine starts. when Operating Equipment · Do not tip engine or equipment at angle which causes gasoline to spill. Never start or run the engine with the air cleaner assembly (if equipped) or the air filter (if equipped) removed. when Changing Oil · If you drain the oil from the top oil fill tube, the fuel tank must be empty or fuel can leak out and result in a fire or explosion.

when Transporting Equipment · Transport with fuel tank EMPTY or with fuel shut-off valve OFF. 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.

DANGER indicates a hazard which, if not avoided, will result in death or 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. WARNING indicates a hazard which, if not avoided, could result in death or CAUTION indicates a hazard which, if not avoided, could result in minor or NOTICE indicates a situation that could result in damage to the product. Certain components in this product and its related accessories contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. Wash hands after handling. If there is natural or LP gas leakage in area, do not start engine. Do not use pressurized starting fluids because vapors are flammable.

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. 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 the starter cord slowly until resistance is felt and then pull rapidly to avoid kickback. Rotating parts can contact or entangle hands, feet, hair, clothing, or accessories. 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.

Do not check for spark with spark plug removed. Engine parts, especially muffler, become extremely hot. Allow muffler, engine cylinder and fins to cool before touching. Remove accumulated debris from muffler area and cylinder area. @@Other states or federal jurisdictions may have similar laws.

Disconnect the spark plug wire and keep it away from the spark plug. @@@@Compare the illustration 1 with your engine to familiarize yourself with the location of various features and controls. Fuel must meet these requirements: · Clean, fresh, unleaded gasoline. Do not mix oil in gasoline or modify the engine to run on alternate fuels. This will damage the engine components and void the engine warranty.

*To protect the fuel system from gum formation, mix a fuel stabilizer into the fuel. If starting or performance problems occur, change fuel providers or change brands. Other high-quality detergent oils are acceptable if classified for service SF, SG, SH, SJ or higher. Do not use special additives. Below 40°F (4°C) the use of SAE 30 will result in hard starting. ** Above 80°F (27°C) the use of 10W-30 may cause increased oil consumption. Check oil level more frequently.*

Before adding or checking the oil · Clean the oil fill area of any debris. Remove the dipstick (C) and wipe with a clean cloth. Oil level should be at FULL mark (D).

3. To add oil, pour the oil slowly into the engine oil fill (B). Remove the dipstick (A) and wipe with a clean cloth. To add oil, pour the oil slowly into the engine oil fill (C). do not overfill. After adding oil, wait one minute and then recheck the oil level. Gasoline and its vapors are extremely flammable and explosive. Turn engine off and let engine cool at least 2 minutes before removing the fuel cap. To allow for expansion of the gasoline, do not fill above the bottom of the fuel tank neck. Keep gasoline away from sparks, open flames, pilot lights, heat, and other ignition sources.

If fuel spills, wait until it evaporates before starting engine. Clean the fuel cap area of dirt and debris. Fill the fuel tank (B) with gasoline. To allow for expansion of the gasoline, do not fill above the bottom of the fuel tank neck (C). 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 the starter cord slowly until resistance is felt and then pull rapidly to avoid kickback. Gasoline and its vapors are extremely flammable and explosive. Do not crank engine with spark plug removed.



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If engine floods, set choke (if equipped) to OPEN/RUN position, move throttle (if equipped) to FAST position and crank until engine starts. Operation of the engine at altitudes below 2,500 feet (762 meters) with the high altitude kit is not recommended. Breathing carbon monoxide can cause nausea, fainting or death. Do not start or run engine in enclosed area, even if doors or windows are open. Maintenance, replacement, or repair of the emissions control devices and systems may be performed by any non-road engine repair establishment or individual. However, to obtain "no charge" emissions control service, the work must be performed by a factory authorized dealer. NOTICE: This engine was shipped from Briggs & Stratton without oil. Before you start the engine, make sure you add oil according to the instructions in this manual. If you start the engine without oil, it will be damaged beyond repair and will not be covered under warranty. Make sure equipment drive controls, if equipped, are disengaged. Note: Choke is usually unnecessary when restarting a warm engine.

Move the throttle control lever (C), if equipped, to the fast the engine with the throttle control lever in the fast position. 6. On engines equipped with a stop switch (D), move the switch to the on position. Pull the starter cord handle slowly until resistance is felt, then pull rapidly. Note: If the engine does not start after repeated attempts, go to BRIGGSandSTRATTON. WARNING: Rapid retraction of the starter cord (kickback) will pull your hand and arm toward the engine faster than you can let go. Broken bones, fractures, bruises or sprains could result. When starting engine, pull the starter cord slowly until resistance is felt and then pull rapidly to avoid kickback. Note: If the engine does not start after repeated attempts, go to BRIGGSandSTRATTON. As the engine warms up, move the choke control (B) to the run Gasoline and its vapors are extremely flammable and explosive.

Electric Start: With the throttle control (C) in the slow position, turn the electric start switch (F) to the off position (Figure 5). Remove the key and keep in a safe place out of the reach of children. After the engine stops, turn the fuel shut-off valve (A), if equipped, to the closed position. Other parts may not perform as well, may damage the unit, and may result in injury. In addition, use of other parts may void your warranty.

We recommend that you see any Briggs & Stratton Authorized Dealer for all maintenance and service of the engine and engine parts. NOTICE: All the components used to build this engine must remain in place for proper operation. Do not check for spark with spark plug removed. Check engine oil level Clean area around muffler and controls Clean finger guard In dusty conditions or when airborne debris is present, clean more often. ** Not required unless engine performance problems are noted.

However, if adjustments are required, see any Briggs & Stratton Authorized Dealer for service. NOTICE: The manufacturer of the equipment on which this engine is installed specifies the top speed at which the engine will be operated. Do not exceed this speed. Note: In some areas, local law requires using a resistor spark plug to suppress ignition signals. If this engine was originally equipped with a resistor spark plug, use the same type for replacement.

Disconnect the spark plug wire and keep it away from the spark plug. @@@@Engine parts, especially muffler, become extremely hot. Allow muffler, engine cylinder and fins to cool before touching. Remove accumulated debris from muffler area and cylinder area. @@Other states or federal jurisdictions may have similar laws.

If the filter is excessively dirty, replace with a new filter. @@ 7. Install cover and secure with the fasteners. Make sure the fasteners are tight. @@@@After the oil has drained, install and tighten tective for and is subject to the time periods and conditions stated below. @@@@There is no other expressed warranty. @@@@Any Authorized Service Dealer may perform warranty repairs. @@@@To avoid misunderstanding which might occur between the customer and the Dealer, listed below are some of the causes of engine failure that the warranty does not cover. 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.

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. 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 2 3 Problems caused by parts that are not original Briggs & Stratton parts.

Equipment controls or installations that prevent starting, cause unsatisfactory engine performance, or shorten engine life. (Contact equipment manufacturer.) Leaking carburetors, clogged fuel pipes, sticking valves, or other damage, caused by using contaminated or stale fuel.

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. 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 and 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. 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/or replace the filter as stated in the Operator's Manual. 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.



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clean engine debris at recommended intervals as stated in the Operator's Manual. 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. 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. Engine or engine component failure, i. Locate your nearest Authorized Service Dealer in our dealer locator map on BRIGGSandSTRATTON. Commercial Use 2 years 1 year 90 days EPA, and Briggs & Stratton (B&S) are pleased to explain the emissions control system warranty on your Model Year 2008 and later engine/equipment. In California, new small off-road engines must be designed, built, and equipped to meet the State's stringent anti-smog standards. B&S must warrant the emissions control system on your engine/equipment for the periods of time listed below provided there has been no abuse, neglect, or improper maintenance of your small off-road engine. Your emissions control system may include parts such as the carburetor or fuel injection system, fuel tank, ignition system, and catalytic converter. Also included may be hoses, belts, connectors, sensors, and other emissions-related assemblies.

Where a warrantable condition exists, B&S will repair your engine/equipment at no cost to you including diagnosis, parts, and labor. As the small engine/equipment owner, you are responsible for the performance of the required maintenance listed in your owner's manual. B&S recommends that you retain all receipts covering maintenance on your engine/equipment, but B&S cannot deny warranty solely for the lack of receipts or your failure to ensure the performance of all scheduled maintenance. As the engine/equipment owner, you should however be aware that B&S may deny you warranty coverage if your engine/equipment or a part has failed due to abuse, neglect, improper maintenance, or unapproved modifications. You are responsible for presenting your engine/equipment to a B&S distribution center, servicing dealer, or other equivalent entity, as applicable, as soon as a problem exists.

The 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 B&S at (414) 259-5262. Small off-road engines are warranted for two years. If any emissions-related part on your engine/equipment is defective, the part will be repaired or replaced by B&S. Warranted Emissions Parts Coverage under this warranty extends only to the parts listed below (the emissions control systems parts) to the extent these parts were present on the engine purchased.

Fuel line, fuel line fittings, clamps · Connectors and assemblies Length of Coverage For a period of two years from date of original purchase, B&S warrants to the original purchaser and each subsequent purchaser that the engine is designed, built, and equipped so as to conform with all applicable regulations adopted by the Air Resources Board; that it is free from defects in material and workmanship that could cause the failure of a warranted part; and that it is identical in all material respects to the engine described in the manufacturer's application for certification. The warranty period begins on the date the engine is originally purchased. Any warranted part that is not scheduled for replacement as required maintenance in the owner's manual supplied, is warranted for the warranty period stated above. If any such part fails during the period of warranty coverage, the part will be repaired or replaced by B&S at no charge to the owner. any such part repaired or replaced under the warranty will be warranted for the remaining warranty period. Any warranted part that is scheduled only for regular inspection in the owner's manual supplied, is warranted for the warranty period stated above. any such part repaired or replaced under warranty will be warranted for the remaining warranty period. Any warranted part that is scheduled for replacement as required maintenance in the owner's manual supplied, is warranted for the period of time prior to the first scheduled replacement point for that part. if the part fails prior to the first scheduled replacement , the part will be repaired or replaced by B&S at no charge to the owner. Any such part repaired or replaced under warranty will be warranted for the remainder of the period prior to the first scheduled replacement point for the part.

Add on or modified parts that are not exempted by the Air Resources Board may not be used. The use of any non exempted add on or modified parts by the owner will be grounds for disallowing a warranty claim. The manufacturer will not be liable to warrant failures of warranted parts caused by the use of a non exempted add on or modified part. Engines that are certified to meet the California Air Resources Board (CARB) Emissions Standard must display information regarding the Emissions Durability Period and the Air Index. @@ the engine emissions label will indicate certification information.

@@@Extended: Engine is certified to be emissions 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 Emissions Durability Period of an engine with an intermediate rating would equate to 10 to 12 years.

Briggs & Stratton engines are certified to meet the United States Environmental Protection Agency (USEPA) Phase 2 emissions 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 emissions requirements.

for engines less than 225 cc displacement. Category C = 125 hours , Category B = 250 hours , Category A = 500 hours For engines of 225 cc or more displacement. Category C = 250 hours , Category B = 500 hours , Category A = 1000 hours Coverage shall extend to the failure of any engine components caused by the failure of any warranted emissions parts. Claims and Coverage Exclusions Warranty claims shall be filed according to the provisions of the B&S engine warranty policy. Warranty coverage does not apply to failures of emissions parts that are not original equipment B&S parts or to parts that fail due to abuse, neglect, or improper maintenance as set forth in the B&S engine warranty policy.

B&S is not liable for warranty coverage of failures of emissions parts caused by the use of add-on or modified parts. The following are specific provisions relative to your Emissions Control Warranty Coverage. It is in addition to the B&S engine warranty for non-regulated engines found in the Operator's Manual.



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Elektrické spouští: Posuňte páku akceleračního (C) do polohy slow vypíná elektrického spouští (F) do polohy off (obrázek 5). Elektrické pokretanje: S regulatorom gasa u položaju (C) slow , okrenite sklopku za električno pokretanje (F) u položaj off (Slika 5).

Elektrinis uzvedimas: Nustatykite greicio reguliatori(C) slow (ltai) pasukite elektros starterio jungikl-rakt (F) off padt (Pav. Elektrisk iedarbinsana: Droseles vadbai atrodotes (C) stvokl slow (lns), pagrieziet elektrisks iedarbinsanas sldzi (F) uz stvokli off (izslgts) (Attlu 5). Nu purtapi haine largi, "nururi care atarnã sau articole care ar putea fi agãþate. Demaror electric: Mutaþi comanda acceleraþiei (C) în poziþia slow (încet) contactul cu cheie (F) în poziþia off (oprit) (Figura 5). NOTIFICARE: Producãtorul echipamentului pe care e instalat motorul a precizat turãþia maximã la care poate fi utilizat acest motor. Pentru a evita eventualele neînþelegeri care pot interveni între clienþi "i distribuitori, vã prezentãm enumerate mai jos câteva din cauzele defectãrii motorului pentru care nu se aplicã garanþia. .



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