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You can read the recommendations in the user guide, the technical guide or the installation guide for BRIGGS & STRATTON 303400. You'll find the answers to all your questions on the BRIGGS & STRATTON 303400 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

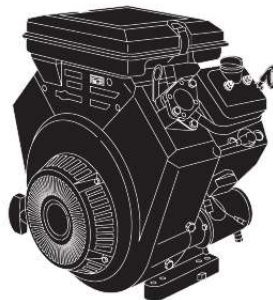
User manual BRIGGS & STRATTON 303400
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- (GB) *Operating & Maintenance Instructions*
- (D) *Betriebsanleitung & Wartungsvorschriften*
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- (S) *Instruktionsbok*
- (SF) *Käyttö & Huolto-ohjeet*



Model 290000	Vanguard	Model 350000	Vanguard
Model 300000	Vanguard	Model 380000	Vanguard



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Manual abstract:

Fire Explosion Kickback Moving Parts Wear Eye Protection Frostbite Toxic Fumes On Off Oil Fuel Fuel Shutoff Stop Slow Fast Open Choke Full / Closed Choke **GENERAL INFORMATION** In the state of California, OHV Model 290000, 300000 and 350000 engines are certified by the California Air Resources Board to meet emissions standards 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. This manual contains safety information to make you aware of the hazards and risks associated with engines, and how to avoid them. Because Briggs & Stratton does not necessarily know what equipment this engine will power, it is important that you read and understand these instructions and the instructions for the equipment this engine powers. **SAFETY SPECIFICATIONS** 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. **WARNING** The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. **WARNING** Briggs & Stratton does not approve or authorize the use of these engines on 3-wheel All Terrain Vehicles (ATVs), motor bikes, fun/recreational go-karts, aircraft products or vehicles intended for use in competitive events. Use of these engines in such applications could result in property damage, serious injury (including paralysis), or even death. 1 **SAFETY 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. · On GASOLINE operated engines do not overfill fuel tank. · 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. Replace if necessary. **WHEN STARTING ENGINE** · Make sure spark plug, muffler, fuel cap and air cleaner are in place. · Do not crank engine with spark plug removed. · If fuel spills, wait until it evaporates before starting engine. · If GASOLINE engine floods, set choke to OPEN/RUN position, place throttle in FAST and crank until engine starts. **WHEN OPERATING EQUIPMENT WITH GASOLINE ENGINE** · Do not tip engine or equipment at angle which causes gasoline to spill. · Do not choke carburetor to stop engine. **WHEN TRANSPORTING EQUIPMENT** · Gasoline Engine: Transport with fuel tank EMPTY or with fuel shut-off valve OFF. · LIQUID PETROLEUM GAS (LPG) / NATURAL GAS (NG) ENGINE: Transport with fuel cylinder EMPTY and valve closed or tank disconnected.

WHEN STORING FUEL OR EQUIPMENT WITH FUEL IN TANK OR IN FUEL CYLINDER · Store away from furnaces, stoves, water heaters or other appliances that have pilot light or other ignition source because they can ignite gasoline vapors. **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** 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. **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. **WARNING** **WARNING** Gaseous fuels are extremely flammable and readily form explosive air-vapor mixtures at ambient temperatures. **IF YOU SMELL GAS:** · DO NOT start the engine.

· DO NOT actuate any electrical switches. · DO NOT use the phone in the vicinity. · Evacuate the area. · Contact the gas supplier or fire department.

REMEMBER: · LPG vapor is heavier than air and tends to collect in low areas. NG vapor is lighter than air and tends to collect in high areas. Both may travel to remote locations. · Keep all flames, sparks, pilot lights, and other ignition sources away from the area where the engine is operated or repaired. · DO NOT smoke when operating or repairing the engine. · DO NOT store gasoline or other flammable vapors or liquids in the vicinity of the engine.

· BEFORE doing any service work to the engine, shut off the gas supply. · After initial installation or servicing, check for gas leaks. DO NOT use an open flame. Apply very soapy water or leak test solution with a brush and look for bubbles. · Keep the equipment and the area surrounding the engine free of debris. · Install the fuel system according to applicable fuel/gas codes. 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. **WARNING** Wear eye protection when doing repair work. Frostbite can result from skin/eye contact with leaking LP liquid. · Installation, adjustment and repair work should be done by a qualified technician.

· Flexible supply lines should be checked regularly to make sure they are in good condition.



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Replace damaged or leaking components. **WARNING** Unintentional sparking can result in fire or electric shock. Unintentional start-up can result in entanglement, traumatic amputation, or laceration. **BEFORE PERFORMING ADJUSTMENTS OR REPAIRS** · Disconnect spark plug wires and keep them away from spark plugs. **WHEN TESTING FOR SPARK** · Use approved spark plug tester. · Do not check for spark with spark plugs removed. **2 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. **OIL RECOMMENDATIONS** Use a high quality detergent oil classified For Service SF, SG, SH, SJ" or higher. Do not use special additives. SAE 30 405 F and higher (55 C and higher) is good for all purpose use above 40°F, use below 40°F will cause hard starting. 10W-30 0 to 1005 F (-18 to 385 C) is better for varying temperature conditions. This grade of oil improves cold weather starting, but may increase oil consumption at 80°F (27°C) or higher. Check oil level frequently at higher temperatures. Synthetic 5W-30 -20 to 1205 F (-30 to 405 C) provides the best protection at all temperatures as well as improved starting with less oil consumption. 5W-30 405 F and below (55 C and below) is recommended for winter use, and works best in cold conditions. **FUEL RECOMMENDATIONS GASOLINE POWERED ENGINES** This engine is certified to operate on gasoline.

The emission control system for this engine is EM (Engine Modifications). Always use gasoline that meets these requirements and follow these guidelines: · Clean, fresh unleaded gasoline. · A minimum of 87 octane/87 AKI (91 RON). If operating at high altitude, see below. · Gasoline with up to 10% ethanol (gasohol) or up to 15% MTBE (methyl tertiary butyl ether), is acceptable.

· Use of any gasoline other than those approved above will void the engine warranty. In some local areas fuel pumps may be marked if the gasoline contains alcohols or ethers. If you are unsure about the gasoline you purchase check with your fuel provider. · Do not modify the engine fuel system or carburetor to run on alternative fuels. · Never mix oil with gasoline.

All gasoline is not the same. If you experience starting or performance problems after new gasoline has been used in your engine, switch to a different fuel provider or change fuel brands. **CAUTION:** Some fuels, called oxygenated or reformulated fuels, are fuels 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. **FUEL STABILIZER** To protect the fuel system from gum formation, mix in a fuel preservative when adding fuel. Briggs & Stratton recommends using **FRESH START** fuel stabilizer, available as a liquid additive, concentrated liquid cartridge or granular additive. **HIGH ALTITUDE USE** At higher altitudes (over 5,000 feet), 85 octane/85 AKI (89 RON) gasoline can be used. Operation at high aan cooling system* **D** Check valve clearance - LPG / NG engines Every Season **D** Replace spark plugs** **D** Replace in-line fuel filter **D** Check valve clearance * ** Clean more often under dusty conditions or when airborne debris is present. In some areas, local law requires using a resistor spark plug to suppress ignition signals.

If this engine was originally equipped with resistor spark plug, use same type of spark plug for replacement. **BEFORE STARTING LPG / NG ENGINES - SEE FIGURE 3** The LPG / NG mixer is equipped with solenoid Ê, fuel inlet Ë, 12 volt connector Ì, and equipped for a fuel lock-off valve Í. (Read the operating instructions supplied by the equipment manufacturer to determine how your engine is equipped.) **BEFORE STARTING ALL ENGINES - SEE FIGURE 4** Note: LPG / NG engines skip steps 1 and 2. Note: If equipment manufacturer has supplied battery, charge it as manufacturer recommends before trying to start engine. 1. Open fuel shut-off valve Ë (if equipped). 2. Move choke control Ë to **CHOKE** or **START**. 3.

Move throttle (if equipped) Ì to **FAST** position. (Operate engine with throttle in **FAST** position and choke in **RUN** or **OFF** position.) 4. Push rocker switch Í to **I** position, if equipped. **REWIND STARTER - SEE FIGURE 5 1.**

Grasp rope handle and pull slowly until resistance is felt. 2. Then, pull cord rapidly to overcome compression, prevent kickback and start engine. 3. Repeat if necessary with choke in **RUN** position throttle in **FAST**.

4. When engine starts, operate in **FAST**. **ELECTRIC STARTER - SEE FIGURE 5 CAUTION:** If equipment manufacturer has supplied battery, charge it before trying to start engine. **DO NOT** operate engine with battery disconnected. To prolong starter life, use short starting cycles (5 seconds maximum, then wait one minute). Extended cranking can damage starter motor. 1. Turn key to **START** position Ë or press button Ë. 2. Repeat if necessary with choke off and throttle control in **FAST** position.

3. Allow engine to warm up. 4. If choke equipped: Slowly adjust toward **RUN** or **OFF** position. Wait until engine runs smoothly before each choke adjustment. 5. Operate engine with choke off and throttle in **FAST** position. **STOPPING - SEE FIGURE 6 1.** Rewind (Manual) Starter: Move throttle control (if equipped) to **SLOW** and then **STOP** Ë position. 2.

Electric (Key) Starter: Move throttle lever (if equipped) to **SLOW**. Turn key to **OFF** Ë. Remove key and store out of reach of children. 3. Push rocker switch (if equipped) to **O** Ì.

4. Close fuel shut-off valve (if equipped). **WARNING DO NOT** move choke control to **CHOKE** position to stop engine. Backfire or engine damage may occur. 4 **CHANGING ENGINE OIL - SEE FIGURE** Change oil after first 8 hours of operation.

1. Change oil while engine is warm. 2. Remove oil drain plug to drain oil. Ë 3. Refill with new oil of recommended SAE viscosity grade. 4. Fill to **FULL** mark on dipstick. 7 **MUFFLER - SEE FIGURE 10 WARNING** Accumulation of debris around muffler Ë could cause a fire. Inspect and clean before every use.

If muffler is equipped with spark arrester screen Ë, remove spark arrester screen for cleaning and inspection every 50 hours or every season. Replace if damaged. **OIL FILTER Ë, IF EQUIPPED.** Replace oil filter after every 100 hours of operation or every season, whichever occurs first. 1. Before installing new filter, lightly oil filter gasket with fresh, clean engine oil. 2. Screw filter on by hand until gasket contacts oil filter adapter. Tighten 1/2 to 3/4 turn more. 3. Refill engine with new oil of recommended SAE viscosity grade. See Adding Oil under **OIL RECOMMENDATIONS** for procedure. 4. Start and run engine at **IDLE** to check for oil leaks. 5.

Stop engine. Recheck oil level and add oil if required. **OIL PRESSURE** If oil pressure drops below 1-4 psi (.



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1-.2 kg/cm2), an oil pressure switch (if engine is equipped) will either activate a warning device or stop the engine.

Check oil level with dipstick. If oil level is between ADD and FULL mark on dipstick, do not try to restart engine. Contact an Authorized Briggs & Stratton Service Dealer. Do not operate engine until oil pressure is corrected. If oil level is below ADD mark on dipstick, add oil to bring level to FULL mark. Restart engine and check oil pressure. If pressure is normal, continue to operate engine. Note: Oil pressure gauge, if engine is equipped, is supplied by manufacturer of equipment. FUEL FILTER Replace in-line fuel filter every season. Drain fuel tank or close fuel shut-off valve before replacing fuel filter.

KEEP ENGINE CLEAN - SEE FIGURE 11 Periodically, after engine cools, remove debris from engine to reduce risk of overheating and ignition. Clean finger guard. Keep linkage, springs and controls free of debris. CAUTION: Clean with a brush or compressed air. DO NOT use water to clean engine parts. Water could contaminate fuel system. Use a brush or dry cloth. OIL COOLER Clean oil cooler every 100 hours or every season, if equipped. COOLING SYSTEM Debris may clog engine's air cooling system, especially after prolonged service. Every 100 hours or every season, clean internal cooling fins and surfaces to prevent overheating and engine damage.

Remove blower housing to clean areas shown . AIR CLEANER, DUAL ELEMENT - SEE FIGURE 8 1. Unhook clips or unscrew knobs and remove cover. 2. Carefully slide pre-cleaner off cartridge.

3. Remove knob and plate. Carefully remove cartridge to prevent debris from entering carburetor. To service cartridge, clean by tapping gently on a flat surface. Do not use pressurized air, which can damage cartridge.

Do not oil cartridge. 4. Reinstall cartridge, plate and knob. 5. Use only Briggs & Stratton Spark Tester, to check for spark. If the spark plug is worn or dirty the engine will be hard to start. -Ensure spark plug gap is 0.76 mm or 0.030 in.

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68 mm (2.68 in.) Stroke . . .

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. . 66 mm (2.60 in.) Displacement

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. 480 cc (29.3 cu. in.) Model 350000 Bore .

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. 72 mm (2.83 in.) Stroke . .

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. . . 70 mm (2.76 in.) Displacement

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. 570 cc (34.7 cu. in.

) Model 380000 Bore

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. . 76 mm (2.97 in.) Stroke .

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..... 70 mm (2.76 in.) Displacement

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..... 627 cc (38.2 cu.

in.) Armature air gap
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.. 0.20-0.30 mm (0.008-0.012 in.) Spark plug gap . . .

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..... @@See Repair Manual P/N 272144. Intake . .

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..... 0.10-0.15 mm (0.

004-0.006 in.) Exhaust
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@@It will operate satisfactorily at an angle up to 15°. @@@@Mix stabilizer with fuel in fuel tank or storage container. @@Engine and fuel can be stored up to 24 months. @@@@1. Change oil. See Oil service. 2. @@Replace spark plug and crank slowly to distribute oil. 3. @@4. When removing the unit from storage, only use fresh gasoline. @@@@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 worldwide, including more than 6,000 Master Service Technicians. Look for these signs wherever Briggs & Stratton service is offered. Partial List of Genuine Briggs & Stratton Parts Part Part No.

Oil (48 oz.)

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..... 100028 Oil filter (6 cm long) .

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..... 492932 Oil filter (9 cm long)

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.....
..... 491056 Oil pump kit (uses electric drill to remove oil from engine) . .

..... 5056 Fuel stabilizer (4.2 oz., 125 ml bottle) . . .

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..... 5041 Fuel filter (without fuel pump)

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.....

.....
... 298090 Fuel filter (with fuel pump)	
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..... 691035 Fuel filter (with 9 qt. fuel tank on engine)	
.....
... 808116 Air cleaner cartridge (with 9 qt. fuel tank on engine) .	
.....
... 393957 Air cleaner pre-cleaner (with 9 qt. fuel tank on engine)	
.....
. 271794 Air cleaner cartridge (all other models except model 380000)	
... 394018 Air cleaner pre-cleaner (all other models except model 380000)	272490 Air cleaner cartridge (model 380000) . .
.....
.....
.. 692519 Air cleaner pre-cleaner (model 380000)	
.....
.....
692520 Resistor spark plug	
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.....
.... 491055 or 496018 Long life platinum spark plug (used on most OHV engines) .	
.....
..... 5066 Spark tester	
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.....

..... 19368 You may find the nearest Authorized Service Dealer in our dealer locator map at www.briggsandstratton.com or by calling 1-800-233-3723. Technical Information Engine Power Rating Information 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. © Briggs & Stratton Corporation (B&S), the California Air Resources Board (CARB) and the United States Environmental Protection Agency (U.S. EPA) Emissions Control System Warranty Statement (Owner's Defect Warranty Rights and Obligations) California, United States and Canada Emissions Control Defects Warranty Statement The California Air Resources Board (CARB), U.S. EPA and B&S are pleased to explain the Emissions Control System Warranty on your small off-road engine (SORE). In California, new small off-road engines model year 2006 and later must be designed, built and equipped to meet the State's stringent anti-smog standards.



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Elsewhere in the United States, new non-road, spark-ignition engines certified for model year 1997 and later must meet similar standards set forth by the U.S. EPA. B&S must warrant the emissions control system on your engine 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 includes parts such as the carburetor, air cleaner, ignition system, fuel line, muffler and catalytic converter. Also included may be connectors and other emissions related assemblies.

Where a warrantable condition exists, B&S will repair your small off-road engine at no cost to you including diagnosis, parts and labor. Briggs & Stratton Emissions Control Defects Warranty Coverage Small off-road engines are warranted relative to emissions control parts defects for a period of two years, subject to provisions set forth below. If any covered part on your engine is defective, the part will be repaired or replaced by B&S. Owner's Warranty Responsibilities As the small off-road engine owner, you are responsible for the performance of the required maintenance listed in your Operating and Maintenance Instructions. B&S recommends that you retain all your receipts covering maintenance on your small off-road engine, but B&S cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance. As the small off-road engine owner, you should however be aware that B&S may deny your warranty coverage if your small off-road engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications. You are responsible for presenting your small offroad engine to an Authorized B&S Service Dealer as soon as a problem exists. The undisputed warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. If you have any questions regarding your warranty rights and responsibilities, you should contact a B&S Service Representative at 1-414-259-5262. The emissions warranty is a defects warranty.

Defects are judged on normal engine performance. The warranty is not related to an in-use emissions test. Briggs & Stratton Emissions Control Defects Warranty Provisions The following are specific provisions relative to your Emissions 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 emissions 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 · Fuel line, fuel line fittings, clamps · Fuel tank, cap and tether · Carbon canister b. Air Induction System · Air cleaner · Intake manifold · Purge and vent line 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 Emissions Durability Period and Air Index Information On Your Engine Emissions 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 emission label will indicate certification information.

The Emissions Durability Period describes the number of hours of actual running time for which the engine is certified to be emissions 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 Emissions Durability Period of an engine with an intermediate rating would equate to 10 to 12 years. 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.



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