

Briggs stratton 117432

Understanding the Briggs Stratton 117432: A Comprehensive Guide

Briggs Stratton 117432 is a well-known engine model in the world of small engines, renowned for its reliability, durability, and performance. Whether you're a homeowner maintaining a lawn mower, a landscaper managing multiple equipment, or a DIY enthusiast working on various projects, understanding the features and specifications of the Briggs Stratton 117432 can significantly enhance your maintenance and operational efficiency. This article provides an in-depth overview of this engine model, including its specifications, common applications, maintenance tips, and troubleshooting advice to help you get the most out of your equipment.

Overview of Briggs Stratton 117432

What Is the Briggs Stratton 117432? The Briggs Stratton 117432 is a 13.5 horsepower (HP), 344cc, 4-cycle gasoline engine designed primarily for outdoor power equipment like lawnmowers, pressure washers, and other small machinery. It belongs to Briggs & Stratton's popular line of engines known for their robust construction and ease of maintenance. The engine features a vertical shaft configuration, making it suitable for a wide range of applications.

Key Features of the Briggs Stratton 117432

Power Output: 13.5 HP, providing ample power for demanding outdoor tasks.

Engine Displacement: 344cc, offering a strong balance of power and efficiency.

Fuel System: Carbureted with a high-quality fuel delivery system.

Lubrication: Splash lubrication system ensures engine longevity.

Starting System: Recoil pull-start, with some models equipped with electric start options.

Design: Compact and lightweight, facilitating easy installation and maneuverability.

Durability: Built with heavy-duty materials to withstand harsh outdoor conditions.

Specifications of Briggs Stratton 117432

Specification	Details
Model Number	117432
Horsepower	13.5 HP
Displacement	344cc
Fuel Type	Regular unleaded gasoline (recommended octane: 87)
Oil Capacity	Approximately 20 oz (varies by model)
Starting Method	Recoil pull-start (electric start available in some variants)
Cooling System	Air-cooled
Shaft Type	Vertical

Common Applications of Briggs Stratton 117432

The versatility of the Briggs Stratton 117432 makes it suitable for various outdoor equipment. Here are some common applications:

- Lawn Mowers** Many lawn mower models utilize this engine due to its reliable power output and durability. It provides smooth operation and consistent performance for mowing large lawns efficiently.
- Pressure Washers** The engine's robustness makes it ideal for powering high-pressure washers used in cleaning driveways, decks, and vehicles.
- Generators** Portable generators powered by the Briggs 117432 are popular among campers and homeowners for backup power solutions.
- Snow Blowers** In colder climates, this engine can be used in snow blowers to clear paths and driveways effectively.
- Small Utility Equipment** Applications include tillers, aerators, and other small machinery used in gardening and landscaping.

Maintenance Tips for Briggs Stratton 117432

Proper maintenance is essential to ensure the longevity and optimal performance of your Briggs Stratton 117432 engine. Here are some vital maintenance tips:

- Regular Oil Changes** Check the oil level before each use. Change the oil after the first 5 hours of operation, then every 50 hours or annually. Use the recommended oil type, typically 30-weight or synthetic oil suitable for small engines.
- Air Filter Inspection and Replacement** Inspect the air filter regularly for dirt and debris. Clean or replace the air filter every 25 hours of operation or as needed to

maintain engine efficiency.

3. Spark Plug MaintenanceCheck the spark plug for wear and carbon buildup.Replace the spark plug annually or after every 100 hours of operation.Ensure the spark plug gap is set according to manufacturer specifications.
4. Fuel System CareUse fresh, clean fuel and stabilize it if storing the engine for extended periods.Inspect the fuel filter and replace it if clogged.Drain the fuel system if the engine will be unused for more than 30 days to prevent gum deposits.
5. Cooling System and ExhaustKeep cooling fins clean to prevent overheating.Check and clear any debris from the exhaust outlet.

Troubleshooting Common Issues with Briggs Stratton 117432

Even with regular maintenance, issues can arise. Here are common problems and their solutions:

1. Engine Won't StartEnsure there is enough fuel in the tank.Check the spark plug for damage or fouling; replace if necessary.Inspect the fuel lines for clogs or leaks.Confirm the ignition switch is in the "On" position.Clean or replace the air filter.
2. Engine Runs Rough or StallsClean or replace the air filter.Check the spark plug for proper gap and condition.Use fresh fuel; old or contaminated fuel can cause performance issues.Adjust the carburetor if necessary or have it serviced.
3. Loss of PowerInspect the fuel filter and replace if clogged.Check for debris in the carburetor.Ensure the oil level is adequate.Clean the cooling fins to prevent overheating.
4. Excessive Vibration or NoiseTighten any loose mounting bolts.Inspect for worn or damaged belts or pulleys if applicable.Check for damaged or bent engine components.

Where to Purchase and Parts for Briggs Stratton 117432

Finding genuine parts and replacement components is crucial for maintaining the performance of your Briggs Stratton 117432 engine. Authorized Briggs & Stratton dealers and online retailers provide:

- Replacement spark plugs
- Oil filters
- Air filters
- Carburetor kits
- Fuel filters
- Replacement recoil starters

Always opt for genuine parts to ensure compatibility and durability.

Conclusion

The Briggs Stratton 117432 engine stands out as a reliable, powerful, and versatile power source for a wide array of outdoor equipment. Its robust design, combined with straightforward maintenance procedures, makes it a favorite among homeowners, landscapers, and DIY enthusiasts. Proper care, timely troubleshooting, and using quality replacement parts can extend its lifespan and ensure it performs optimally for years to come. Whether you're powering a lawn mower, pressure washer, or generator, understanding the specifications and maintenance needs of the Briggs Stratton 117432 will help you achieve the best results in your outdoor projects.

Briggs Stratton 117432: An In-Depth Investigation into Its Performance, Reliability, and Value

The Briggs Stratton 117432 engine has long been a staple in the landscape and power equipment industry. Known for its widespread use in lawn mowers, generators, and other outdoor power tools, this engine exemplifies Briggs Stratton's reputation for durability and performance. However, as with any mechanical component, understanding its intricacies, common issues, and real-world performance requires a comprehensive investigation. This article aims to dissect the Briggs Stratton 117432 engine from multiple angles—its technical specifications, historical performance data, user experiences, and potential areas for improvement—to provide an authoritative review suitable for enthusiasts, professionals, and consumers alike.

Technical Overview of the Briggs Stratton 117432

Before delving into performance and reliability assessments, it's essential to understand the

fundamental design and specifications of the Briggs Stratton 117432 engine.Engine SpecificationsEngine Type: Single-cylinder, 4-stroke, horizontal shaftDisplacement: Approximately 11.5 cubic inches (189cc)Horsepower: Typically rated around 12 HPCooling System: Air-cooledFuel System: CarburetedLubrication: Splash lubricationIgnition System: Magneto ignitionStarting Method: Recoil pull-start, with some variants featuring electric start optionsCompression Ratio: Approximately 8.0:1Oil Capacity: Around 20 oz (0.59 liters)These specifications indicate a mid-range engine designed for durability and ease of maintenance, making it suitable for various outdoor power equipment.Historical Performance and User FeedbackTo fully assess the Briggs Stratton 117432, it's vital to analyze both manufacturer claims and real-world user experiences accumulated over years of operation.Reliability and DurabilityMany users report that the 117432 engine offers consistent performance over multiple seasons. Its robust construction and straightforward design contribute to longevity when properly maintained. However, some common issues have emerged in user reviews:Difficulty Starting After Extended Storage: Several users have noted that the engine can be challenging to start after periods of inactivity, often due to stale fuel or carburetor clogging.Oil Consumption: A subset of users reports higher-than-expected oil consumption, potentially linked to piston ring wear or improper oil levels.Carburetor Problems: Clogging and fuel varnish buildup are frequent complaints, especially in environments with fluctuating humidity or when poor-quality fuel is used.Spark Plug Fouling: Regular fouling can occur, impacting engine performance and requiring routine inspection and replacement.Despite these issues, the majority of users find the engine dependable for routine lawn care and outdoor tasks, emphasizing its ease of repair and availability of replacement parts.Performance Metrics in Field ApplicationsIn controlled testing environments, the Briggs Stratton 117432 demonstrates:Consistent Power Output: With a rated 12 HP, it reliably powers standard lawnmowers, pressure washers, and small generators.Smooth Operation: The engine runs smoothly under load with minimal vibration, contributing to operator comfort.Fuel Efficiency: Achieving approximately 0.4 gallons per hour under typical use, which is competitive for engines of this size.Field tests suggest that when properly maintained, the 117432 can operate efficiently for several hundred hours before significant overhaul is needed.Common Maintenance and TroubleshootingAn essential aspect of evaluating any engine is understanding the maintenance requirements and troubleshooting procedures.Routine Maintenance TasksOil Changes: Every 25-50 hours of operation or at the start of each season.Air Filter Replacement: Every 25 hours or more frequently in dusty conditions.Spark Plug Inspection: Every 50 hours, replacing if fouled or worn.Carburetor Cleaning: As needed, especially if starting issues or rough running occur.Fuel System Checks: Ensuring fuel is fresh and free of debris; draining old fuel before storage.Common Troubleshooting Scenarios| Issue | Possible Causes | Solutions ||---|---|---|| Engine Won't Start | Stale fuel, dirty carburetor, spark plug issues | Drain old fuel, clean/replace carburetor parts, inspect/replace spark plug || Engine Surges or Runs Rough | Carburetor clog, air filter dirt, improper mixture | Clean carburetor, replace air filter, adjust mixture settings || Excessive Oil Consumption | Worn piston rings, overfilled oil | Perform engine overhaul or replace worn components, correct oil levels |Regular maintenance and prompt troubleshooting can significantly extend the engine's lifespan and maintain peak performance.Areas of Improvement and Industry ComparisonWhile the Briggs Stratton 117432 has proven reliable over the years, some areas could benefit from

innovation or refinement:Enhanced Starting Systems: Incorporating electric start options could improve user convenience.Fuel Efficiency Gains: Slight modifications in carburetor design or fuel delivery could reduce consumption.Reduced Oil Consumption: Improved piston ring materials or sealing could address high oil usage reports.Better Corrosion Resistance: Upgrading materials in critical components can extend lifespan in humid or corrosive environments.Compared to contemporary engines from competitors like Honda or Kohler, the 117432 holds its own in terms of durability and cost-effectiveness but lags slightly in technological innovation and fuel efficiency.

Cost and Availability of PartsAn advantage of the Briggs Stratton 117432 is the widespread availability of parts and service centers, owing to Briggs Stratton's extensive global network. Replacement components such as carburetors, spark plugs, oil filters, and piston rings are readily accessible online and through authorized dealers.Pricing for parts varies but generally remains affordable, making repairs accessible for most users. The engine itself, when purchased new, typically retails between \$300 and \$500, depending on features such as electric start or additional accessories.

Final Assessment and RecommendationsBased on a comprehensive investigation into the Briggs Stratton 117432, several key conclusions emerge:

- Reliability:** The engine is generally dependable when maintained properly, with many users enjoying years of service.
- Performance:** It delivers consistent power suitable for a range of outdoor applications.
- Maintenance:** Routine upkeep is straightforward, but neglect can lead to common issues like carburetor clogging or oil consumption.
- Value:** Its affordability, ease of repair, and parts availability make it a cost-effective choice.

Recommendations for Potential Buyers:Ensure regular maintenance, especially oil changes and air filter replacements.Use high-quality fuel and consider stabilizers for storage periods.Address minor issues promptly to prevent larger repairs.Consider models with electric start if ease of use is a priority.

ConclusionThe Briggs Stratton 117432 engine represents a balanced combination of performance, durability, and affordability. While it may not feature the latest technological innovations found in newer models, its proven track record makes it a dependable choice for homeowners and professionals seeking a straightforward, reliable power source for outdoor equipment. Future improvements could focus on enhancing starting mechanisms and fuel efficiency, but for now, the 117432 remains a solid workhorse in its class.

Through this thorough investigation, it's clear that the Briggs Stratton 117432 maintains its reputation as a dependable engine worthy of consideration for those in need of a durable and accessible power unit for their outdoor chores.

QuestionAnswer

What are the key specifications of the Briggs Stratton 117432 engine?

The Briggs Stratton 117432 is a 16.5 horsepower, 500cc vertical shaft engine designed for lawn mowers and outdoor power equipment, featuring a cast iron sleeve and a durable overhead valve design.

Is the Briggs Stratton 117432 suitable for replacement in existing lawn mowers?

Yes, the Briggs Stratton 117432 is compatible with many lawn mower models that require a 16.5 HP vertical shaft engine, but it's important to verify compatibility with your specific equipment.

What common issues should I watch out for with the Briggs Stratton 117432?

Common issues include difficulty starting, carburetor clogging, and oil leaks. Regular maintenance and proper storage can help prevent these problems.

How do I perform basic maintenance on the Briggs Stratton 117432?

Basic maintenance includes changing the oil regularly, cleaning or replacing the air filter, inspecting spark plugs, and checking for loose bolts or leaks to ensure optimal performance.

Where can I purchase genuine parts and accessories for the Briggs Stratton 117432?

Genuine parts and accessories can be purchased through authorized Briggs Stratton dealers, the official Briggs Stratton website, or trusted outdoor power equipment retailers.

What is the recommended oil type and capacity for the Briggs Stratton 117432?

The recommended oil type is 10W-30 or 30-weight non-detergent oil, with an oil capacity of approximately 1 quart (0.95 liters). Always refer to the owner's manual for exact specifications.

How do I troubleshoot starting issues with the Briggs Stratton 117432?

Troubleshoot by checking the spark plug, ensuring the fuel is fresh, inspecting the air filter, and verifying the carburetor is clean. If problems persist, perform a compression check or consult a professional technician.

Is the Briggs Stratton 117432 engine EPA-compliant?

Yes, the Briggs Stratton 117432 complies with EPA emission standards, making it suitable for use in areas with strict environmental regulations.

Related keywords: Briggs Stratton, engine part, lawn mower engine, small engine repair, replacement part, engine carburetor, engine rebuild, power equipment, engine model, outdoor equipment

Briggs stratton accessories catalog

Briggs Stratton Accessories Catalog: Your Ultimate Guide to Enhancing Your Engine Performance and Maintenance

If you're a proud owner of Briggs & Stratton engines or equipment, exploring the Briggs Stratton accessories catalog is essential for optimizing your machinery's performance, durability, and convenience. Whether you're looking for replacement parts, maintenance tools, or performance-enhancing accessories, the catalog offers a comprehensive range of products tailored to meet various needs. This article provides an in-depth overview of the catalog, highlighting key categories, popular accessories, and tips for selecting the right items to keep your equipment running smoothly.

Understanding the Briggs Stratton Accessories Catalog

The Briggs Stratton accessories catalog is a curated collection of parts, tools, and enhancements designed specifically for Briggs & Stratton engines and equipment. The catalog is regularly updated to include the latest innovations, ensuring users have access to high-quality products compatible with their machinery.

Why Use Original Briggs & Stratton Accessories?

- Guaranteed Compatibility:** Designed to fit seamlessly with Briggs & Stratton engines.
- Enhanced Performance:** Improve efficiency and power output.
- Extended Equipment Lifespan:** Proper maintenance accessories help prevent breakdowns.
- Warranty Compliance:** Using genuine parts maintains warranty validity.

Main Categories of Briggs Stratton Accessories

The catalog is organized into several key sections, each catering to different aspects of engine maintenance, performance, and customization.

Maintenance and Service Parts

Proper maintenance is vital for engine longevity. The catalog offers a variety of service parts to facilitate routine upkeep.

Essential Maintenance Items:

- Oil Filters
- Air Filters
- Spark Plugs
- Fuel Filters
- Oil Drain Plugs

Maintenance Kits:

Complete tune-up kits containing filters, spark plugs, and oil for easy servicing. Seasonal maintenance kits tailored for specific climates.

Replacement Parts

Over time, certain components may wear out or become damaged. The catalog provides genuine replacement parts to restore your equipment.

Common Replacement Parts:

- Carburetors
- Starter assemblies
- Recoil pulls
- Mufflers
- Belts and pulleys

Performance-Enhancing Accessories

To boost efficiency or adapt equipment for specific tasks, the catalog includes several performance accessories.

Popular Performance Parts:

- High-performance air filters
- Upgraded carburetor kits
- Fuel stabilizers
- Performance mufflers

Attachments and Add-Ons

Enhance your equipment's versatility with various attachments.

Examples Include:

- Snow blower attachments
- Lawn aerators
- Deethatchers
- Bagging systems
- Mulching kits

Safety and Protective Gear

Safety is paramount when operating powered equipment.

Recommended Gear:

- Safety glasses
- Hearing protection
- Replacement shields and covers

Accessories for Specific Equipment Types

Briggs & Stratton produces a wide range of equipment including lawn mowers, pressure washers, and generators. The catalog offers accessories tailored to each.

How to Navigate the Briggs Stratton Accessories Catalog

Finding the right accessory involves understanding your equipment model and specific needs. Here's how to efficiently browse the catalog:

- Step 1: Identify Your Equipment Model**
 - Locate the model number label on your engine or equipment. This ensures compatibility.
- Step 2: Determine Your Needs**
 - Decide whether you need maintenance parts, performance upgrades, or attachments.
- Step 3: Use the Catalog Filters**
 - Most online catalogs allow filtering by:
 - Equipment type
 - Model number
 - Part category
- Step 4: Consult the Product Descriptions**
 - Read detailed descriptions and specifications to

confirm suitability. Step 5: Purchase from Authorized Retailers To guarantee authenticity, buy through Briggs & Stratton authorized dealers or the official website.

Top Recommended Accessories in the Briggs Stratton Catalog

Below are some of the most popular and highly recommended accessories for maintaining and enhancing Briggs & Stratton equipment.

Briggs & Stratton Oil Filters

Essential for engine lubrication Available in various sizes matching different engine models Easy to install and replace

Air Filters

Protect the engine from dust and debris Options include standard and high-performance filters

Spark Plugs

Critical for ignition Recommended to replace periodically for optimal firing

Maintenance Kits

Offer a cost-effective way to perform comprehensive tune-ups Usually include filters, spark plugs, and oil

Carburetor Kits

Useful for engines experiencing starting issues or poor performance Usually include gaskets and necessary hardware

Snow Blower Attachments

Convert compatible equipment into effective snow removal tools Include augers, chutes, and skid shoes

Pressure Washer Accessories

Nozzles for different spray patterns Replacement hoses and gun assemblies

Tips for Choosing the Right Briggs Stratton Accessories

Selecting the appropriate accessories ensures maximum efficiency and longevity of your equipment. Consider Your Equipment Model Always verify compatibility before purchasing. Use the model number to find matching accessories. Focus on Genuine Parts Opt for genuine Briggs & Stratton accessories to guarantee quality and compatibility. Regular Maintenance Implement routine replacement of filters, spark plugs, and belts based on usage frequency and manufacturer recommendations. Upgrade for Performance Invest in high-performance parts if you require increased power, fuel efficiency, or durability. Safety First Always replace safety shields and protective gear to prevent accidents during operation and maintenance.

Benefits of Using the Briggs Stratton Accessories Catalog

Utilizing the catalog for your accessory needs offers multiple advantages:

- Reliability:** Original parts ensure consistent performance.
- Cost Savings:** Proper maintenance reduces repair costs.
- Extended Equipment Life:** Regular upgrades and replacements keep machinery in top condition.
- Peace of Mind:** Confidence in equipment safety and efficiency.

How to Purchase Briggs Stratton Accessories

You can acquire accessories through various channels:

- Official Briggs & Stratton Website:** Browse and order directly from the manufacturer.
- Authorized Dealers and Retailers:** Find local stores offering genuine parts.
- Online Marketplaces:** Ensure the seller is reputable before purchasing.

Conclusion

The Briggs Stratton accessories catalog is an invaluable resource for owners aiming to maintain, upgrade, or customize their engines and equipment. By understanding the available categories—from maintenance parts to performance upgrades—and following best practices in selection and replacement, users can ensure their machinery operates efficiently, safely, and for years to come. Always prioritize genuine products and consult your equipment's manual or a professional technician when in doubt. Regularly exploring the catalog for new accessories and innovations will help you get the most out of your Briggs & Stratton investment. Optimize your equipment today by exploring the Briggs Stratton accessories catalog—your key to reliable, high-performance machinery.

Equipment In the world of outdoor power equipment, Briggs & Stratton stands out as a household name synonymous with durability, reliability, and innovative engineering. Renowned for manufacturing small engines powering lawn mowers, generators, snow blowers, and other outdoor tools, Briggs & Stratton has cultivated a vast ecosystem of accessories designed to optimize, maintain, and expand the functionality of their equipment. The Briggs & Stratton accessories catalog is an extensive resource, offering a wide array of products tailored to meet the diverse needs of homeowners, landscapers, and professional operators alike. This article delves into the key components of the catalog, exploring the variety, features, and strategic importance of these accessories in maintaining peak performance and extending the lifespan of Briggs & Stratton equipment.

Overview of the Briggs & Stratton Accessories Catalog

The Briggs & Stratton accessories catalog is a comprehensive compilation that categorizes products into several core areas, including maintenance parts, safety accessories, performance enhancements, and storage solutions. Its purpose is to provide users with a one-stop resource for all supplementary and replacement parts, ensuring their equipment remains in optimal condition throughout its operational life. The catalog is designed with user convenience in mind, often available in both physical print and digital formats, facilitating easy navigation and quick identification of relevant accessories. It caters to a broad spectrum of products, from small engine components to specialized attachments, emphasizing the brand's commitment to supporting its ecosystem.

Key Features of the Catalog

- Extensive product range covering maintenance, safety, and performance.
- Clear categorization for easy browsing.
- Compatibility listings to match accessories with specific models.
- Technical specifications and installation guidelines.
- Visual aids and detailed descriptions for better understanding.

Categories of Accessories in the Briggs & Stratton Catalog

The catalog divides accessories into several major categories, each serving a specific purpose. Below is a detailed analysis of these categories:

- #### 1. Maintenance Parts and Replacement Components

Maintaining the health of small engines is paramount to ensuring longevity and consistent performance. Briggs & Stratton offers a comprehensive range of maintenance parts, including:

 - Oil Filters and Oil Drain Plugs:** Essential for engine lubrication and cleanliness, prolonging engine life.
 - Spark Plugs:** Critical for ignition; the catalog offers various types optimized for different engine models.
 - Air Filters:** Protect the engine from dust and debris; available in standard and high-performance variants.
 - Fuel Filters:** Ensuring clean fuel delivery, reducing carburetor clogging.
 - Belts and Pulleys:** For drive systems, blades, and other moving parts.
 - Carburetor Kits and Gaskets:** For carburetor repairs or rebuilds.
 - Fuel Pumps:** Ensuring proper fuel delivery in specific models.

These parts are often sold as OEM (Original Equipment Manufacturer) components, guaranteeing compatibility and durability. The catalog provides detailed part numbers, diagrams, and installation instructions, making maintenance accessible even for DIY enthusiasts.
- #### 2. Safety and Protective Accessories

Safety is a top priority in outdoor equipment operation. Briggs & Stratton's safety accessories are designed to protect users while maximizing operational efficiency:

 - Protective Eyewear and Hearing Protection:** Reduces risk of injury from debris and noise.
 - Operator Shields and Guards:** For blades, belts, or hot surfaces, preventing accidental contact.
 - Emergency Shut-off Switches:** Enhances safety features on larger equipment.
 - Reflective Tape and Signage:** Improves visibility during nighttime operation.

In addition, the catalog emphasizes safety guidelines and recommends specific accessories suited for different environments or user

skill levels.

3. Performance Enhancing Accessories

To maximize the efficiency and versatility of Briggs & Stratton equipment, the catalog offers various accessories that enhance performance:

- High-Performance Air Filters and Oil Additives:** For prolonged engine health under heavy-duty use.
- Tire and Wheel Kits:** For equipment that requires mobility or specific terrain handling.
- Auger Attachments and Blades:** For snow removal or soil cultivation.
- Additional Fuel Tanks and Extended Capacity Modules:** For longer operation times.

These accessories enable users to customize their equipment based on specific needs, whether tackling heavy snowfalls or maintaining expansive lawns.

4. Storage, Covers, and Transport Accessories

Proper storage extends equipment lifespan and maintains operational readiness. Briggs & Stratton provides:

- Weatherproof Covers:** To protect equipment from the elements.
- Storage Bags and Containers:** For organizing parts, tools, and accessories.
- Transport Handles and Carts:** Facilitating mobility and ease of use during transportation.
- Battery Chargers and Maintenance Kits:** For battery-powered models and seasonal storage.

These accessories contribute to the maintenance of equipment integrity, preventing corrosion, wear, and accidental damage.

Compatibility and Model-Specific Accessories

One of the critical aspects of the Briggs & Stratton accessories catalog is its emphasis on compatibility. Given the variety of engines and equipment models, the catalog provides detailed compatibility charts, ensuring customers select the correct accessories for their specific units.

Model Identification and Compatibility Tips:

- Always check the model and serial number of your equipment.
- Refer to the catalog's compatibility charts before purchasing.
- Use OEM accessories for guaranteed fit and performance.
- Consult with authorized dealers if in doubt.

This meticulous approach minimizes mismatched parts, reduces repair times, and enhances overall user satisfaction.

Innovations and Trends in the Accessories Catalog

Briggs & Stratton continually updates its accessories catalog to incorporate technological advancements and evolving user needs. Recent trends include:

- Eco-Friendly and Emission-Reducing Accessories:** Such as fuel-efficient filters and low-emission engine parts.
- Smart Technology Integration:** Accessories that can connect to mobile apps for maintenance alerts or performance monitoring.
- Enhanced Safety Features:** Including automatic shut-offs and improved guarding systems.
- Modular Attachments:** Allowing users to convert or upgrade equipment with minimal effort.

These innovations reflect Briggs & Stratton's commitment to sustainability, user safety, and technological advancement.

Availability and Purchasing Options

The Briggs & Stratton accessories catalog is widely accessible through various channels:

- Official Website:** The primary source, offering detailed product listings, compatibility guides, and online ordering.
- Authorized Dealers and Service Centers:** Providing personalized assistance and ensuring genuine parts.
- Online Retailers:** Such as Amazon, Home Depot, and Lowe's, which stock a curated selection of accessories.
- Physical Catalogs:** Available at retail locations for browsing and planning.

Pricing varies depending on the accessory's complexity and purpose, but Briggs & Stratton emphasizes quality and durability as core values, often positioning OEM parts as a long-term investment in equipment longevity.

Conclusion: The Strategic Importance of the Accessories Catalog

The Briggs & Stratton accessories catalog plays a vital role in the ecosystem of outdoor power equipment. It not only offers replacement parts but also empowers users to optimize performance, enhance safety, and extend the lifespan of their investments. By providing detailed compatibility information, innovative products, and accessible purchasing options,

Briggs & Stratton ensures that customers can maintain their equipment efficiently and confidently. For professionals and homeowners alike, leveraging the accessories catalog is a strategic move, facilitating smooth operation, reducing downtime, and ensuring safety standards are met. As outdoor equipment continues to evolve with technological advancements, Briggs & Stratton's commitment to expanding and refining its accessory offerings positions it as a leader in the industry, dedicated to supporting its users through comprehensive, high-quality solutions. In sum, whether you are seeking routine maintenance parts or specialized attachments, the Briggs & Stratton accessories catalog stands as an invaluable resource, embodying the brand's promise of power, reliability, and innovation.

QuestionAnswer

Where can I find the latest Briggs & Stratton accessories catalog?

You can access the latest Briggs & Stratton accessories catalog on their official website under the 'Parts & Accessories' section or request a printed copy from authorized dealers.

What types of accessories are available in the Briggs & Stratton catalog?

The catalog includes a wide range of accessories such as replacement parts, attachments, engine covers, maintenance kits, and specialized add-ons for various lawnmower and generator models.

How do I identify the right accessories for my Briggs & Stratton engine?

You should check your engine's model and serial number, then refer to the catalog's compatibility charts or consult with an authorized dealer to ensure you select the correct accessories.

Are Briggs & Stratton accessories compatible with all models?

Not all accessories are compatible with every model. The catalog provides specific information on compatibility, so always verify the part number and your equipment model before purchasing.

Can I purchase Briggs & Stratton accessories online through the catalog?

Yes, the accessories listed in the catalog can often be purchased online via the Briggs & Stratton official website or through authorized online retailers.

What are some popular accessories featured in the Briggs & Stratton catalog?

Popular accessories include high-capacity fuel tanks, blade kits, engine covers, maintenance kits, and turf care attachments designed to enhance functionality and convenience.

How often is the Briggs & Stratton accessories catalog updated?

The catalog is typically updated annually to include new products and improvements. Always check the official website for the most current version.

Can I get technical support or advice on accessories from the Briggs & Stratton catalog?

Yes, Briggs & Stratton provides technical support and expert advice through their customer service, authorized dealers, and online resources to help you choose the right accessories.

Related keywords: Briggs & Stratton parts, lawn mower accessories, engine replacement parts, outdoor power equipment, mower blades, spark plugs, air filters, fuel filters, maintenance kits, engine covers

Briggs and stratton 9t502

Understanding the Briggs and Stratton 9T502: A Comprehensive Guide
Briggs and Stratton 9T502 is a renowned model within the Briggs and Stratton line of small engine products, widely appreciated for its durability, reliable performance, and ease of maintenance. As one of the most popular engines used in various lawn and garden equipment, including mowers, generators, and pressure washers, the 9T502 has established itself as a dependable power source for homeowners and professional landscapers alike. This article provides an in-depth overview of the Briggs and Stratton 9T502, covering its specifications, features, common applications, maintenance tips, troubleshooting, and why it remains a top choice for outdoor power equipment.

Overview and Key Specifications of Briggs and Stratton 9T502
The Briggs and Stratton 9T502 is a small, air-cooled, four-cycle gasoline engine designed for versatile use in outdoor power equipment. Its compact size combined with robust performance makes it suitable for various applications. Here are the key specifications:

- Engine Type: 4-cycle, single-cylinder, air-cooled
- Horsepower: Approximately 5.0 HP (horsepower)
- Displacement: 208 cc
- Oil Capacity: 20 oz (0.6 liters)
- Starting System: Recoil (pull-start)
- Fuel Tank Capacity: Around 1 quart (0.95 liters)
- Lubrication: Splash-lubricated
- Recommended Use: Lawn mowers, pressure washers, generators, and tillers

Features and Benefits of the Briggs and Stratton 9T502
The success of the Briggs and Stratton 9T502 stems from its well-designed features that prioritize user convenience, durability, and efficiency. Key features include:

- 1. Reliable Power Output**
The 5.0 HP engine provides ample power

for a variety of outdoor tasks, ensuring consistent performance even under demanding conditions.

2. **Easy Starting Mechanism** Equipped with a recoil start system, the 9T502 offers straightforward, hassle-free ignition, essential for quick operation.
3. **Durable Construction** Built with high-quality materials, the engine is designed to withstand harsh outdoor environments and prolonged use.
4. **Low Maintenance Design** Features like simplified oil change procedures and accessible components make routine maintenance manageable for users.
5. **Compatibility and Versatility** Suitable for multiple applications, including lawnmowers, pressure washers, generators, and tillers, making it a versatile choice for various outdoor equipment.
6. **Efficient Fuel Consumption** Designed to optimize fuel efficiency, helping users save on operating costs over time.

Common Applications of the Briggs and Stratton 9T502 Given its power and durability, the Briggs and Stratton 9T502 is commonly used in the following equipment:

1. **Lawn Mowers** Many walk-behind and riding mowers utilize the 9T502 engine due to its reliable performance and straightforward maintenance.
2. **Pressure Washers** Its consistent power output makes it ideal for powering high-pressure water systems used for cleaning driveways, decks, and vehicles.
3. **Generators** Portable generators equipped with the 9T502 engine provide backup power during outages or for outdoor events.
4. **Tilling Equipment** Used in garden tillers for effective soil preparation, thanks to its torque and durable design.

Maintenance Tips for the Briggs and Stratton 9T502 Maintaining your Briggs and Stratton 9T502 engine ensures its longevity and optimal performance. Here are essential maintenance practices:

1. **Regular Oil Changes** Change the engine oil after every 25-50 hours of use or at least once per season. Use the recommended oil type, typically 30W or 10W-30 for general conditions.
2. **Air Filter Inspection and Replacement** Check the air filter regularly; clean or replace it if it appears dirty or clogged to prevent dirt from entering the engine.
3. **Spark Plug Maintenance** Inspect the spark plug for wear or carbon buildup every 100 hours of operation. Replace if necessary to ensure reliable starting and smooth operation.
4. **Fuel System Care** Use fresh, clean gasoline and add fuel stabilizer if storing the engine for extended periods. Drain the fuel system before long-term storage to prevent gum and varnish buildup.
5. **Spark Arrestor Cleaning** If equipped, clean the spark arrestor screen periodically to prevent engine overheating and maintain performance.
6. **General Inspection** Regularly check for loose bolts, damaged parts, or leaks and address issues promptly.

Troubleshooting Common Issues with the Briggs and Stratton 9T502 Despite its reliability, occasional problems may arise. Here are common issues and solutions:

1. **Engine Won't Start** Check fuel supply: ensure there's enough fresh fuel. Inspect spark plug: replace if dirty or worn. Examine the recoil starter: ensure it engages properly. Verify the carburetor is clean and not clogged.
2. **Engine Stalls or Runs Poorly** Clean or replace air filter. Adjust the carburetor settings. Check for fuel line blockages or dirt in the fuel tank.
3. **Loss of Power** Perform a thorough inspection of the spark plug and air filter. Check for clogged or dirty fuel filters. Ensure the oil level is adequate and clean.
4. **Excessive Vibration or Unusual Noise** Tighten loose bolts and mounting hardware. Inspect for damaged or unbalanced components.

Why Choose the Briggs and Stratton 9T502? Investing in the Briggs and Stratton 9T502 engine offers numerous advantages:

- Proven Reliability:** Known for consistent performance over years of service.
- Ease of Maintenance:** Designed with user-friendly features for routine upkeep.
- Versatility:** Compatible with a broad range of outdoor equipment.
- Availability of Parts:** Wide network of authorized service centers and readily available replacement parts.
- Cost-Effective**

Operation: Efficient fuel consumption and low maintenance costs. Conclusion: Is the Briggs and Stratton 9T502 Right for You? The Briggs and Stratton 9T502 engine remains a top choice for users seeking a reliable, efficient, and versatile power source for their outdoor equipment. Whether you're maintaining a lawn, operating a pressure washer, or powering a generator, this engine offers the performance and durability necessary to get the job done effectively. Proper maintenance and troubleshooting will ensure your 9T502 engine continues to serve you well for years to come. If you're considering a replacement engine or upgrading your equipment, the Briggs and Stratton 9T502 stands out as a dependable option worth investing in. Keywords: Briggs and Stratton 9T502, small engine, lawn mower engine, pressure washer engine, generator engine, outdoor power equipment, engine maintenance, troubleshooting Briggs and Stratton 9T502, durable small engine, reliable outdoor power engine

Briggs and Stratton 9T502: The Ultimate Guide to Your Reliable Lawn Mower Engine When it comes to maintaining a lush, manicured lawn, a dependable engine is essential. The Briggs and Stratton 9T502 stands out as a robust, reliable power source for lawn mowers and outdoor equipment. Known for its durability and performance, this engine has become a favorite among homeowners and professional landscapers alike. Whether you're a seasoned gardener or a weekend warrior, understanding the ins and outs of the Briggs and Stratton 9T502 can help you optimize its performance, troubleshoot issues effectively, and ensure your outdoor equipment runs smoothly for years to come.

Overview of the Briggs and Stratton 9T502 Engine The Briggs and Stratton 9T502 is a vertical shaft, 4-cycle, gasoline-powered engine designed primarily for lawn mowers and other outdoor power equipment. It belongs to Briggs and Stratton's line of small engines, celebrated for their efficiency, ease of maintenance, and longevity.

Key Specifications:

- Engine Type: 4-cycle, gas-powered
- Displacement: Approximately 163 cc
- Horsepower: Around 5.0 HP
- Fuel Capacity: Typically 1 quart (0.95 liters)
- Starting System: Recoil pull start
- Lubrication: Splash lubrication
- Cooling System: Air-cooled
- Ignition System: Magneto ignition

The simplicity of its design makes the 9T502 an accessible engine for repairs and routine maintenance, making it a popular choice for both DIY enthusiasts and professionals.

Features and Benefits of the Briggs and Stratton 9T502 Understanding what sets the Briggs and Stratton 9T502 apart helps users appreciate its value:

- Reliable Power Output:** Provides consistent performance suitable for various lawn mower models.
- Ease of Maintenance:** Designed with accessible components, making routine tasks straightforward.
- Durability:** Built to withstand harsh outdoor conditions.
- Fuel Efficiency:** Optimized combustion process reduces fuel consumption.
- Low Vibration:** Ensures smoother operation, reducing user fatigue.
- Compatibility:** Fits many Briggs and Stratton-powered equipment with minimal modifications.

Common Applications of the Briggs and Stratton 9T502 This engine is commonly used in:

- Lawn Mowers:** Especially walk-behind models and riding mowers.
- Generators:** Small portable units.
- Tillers:** For garden preparation.
- Pressure Washers:** As a power source.
- Other Outdoor Power Equipment:** Including aerators and snow blowers.

Its versatility makes it an essential component in many outdoor power tools.

Installation and Setup Proper installation and setup are crucial for optimal

performance. **Step-by-Step Installation Guide:** **Preparation:** Ensure the engine area is clean and free of debris. **Mounting:** Securely attach the engine to the equipment frame using the appropriate bolts and brackets. **Fuel Connection:** Fill the tank with fresh, clean gasoline; avoid old or contaminated fuel. **Oil Filling:** Check the oil level and add the recommended oil type if needed (typically SAE 30 or 10W-30). **Spark Plug Inspection:** Ensure the spark plug is properly installed and gapped according to specifications. **Throttle and Choke Settings:** Adjust for starting and operation based on your equipment's manual. **Routine Maintenance for Longevity:** Regular maintenance extends the life of your Briggs and Stratton 9T502 and maintains peak performance. **Maintenance Checklist:** **Oil Change:** Every 25-50 hours of operation or seasonally. **Air Filter Cleaning/Replacement:** Every 25 hours or when dirty. **Spark Plug Inspection:** Every 100 hours or annually. **Fuel System Checks:** Regularly inspect for leaks or clogs. **Cooling Fins Cleaning:** Keep air passages clear of debris. **Fuel Stabilizer Use:** To prevent fuel degradation during storage. **Troubleshooting Common Issues:** Even the most reliable engines can encounter problems. Here are common issues and their solutions: **Engine Won't Start** **Possible Causes:** Old or contaminated fuel, Faulty spark plug, Dirty carburetor, Choke not engaged or malfunctioning. **Solutions:** Drain old fuel and replace with fresh gasoline. Inspect and replace the spark plug if fouled or damaged. Clean or rebuild the carburetor. Ensure the choke is engaged during startup. **Engine Runs Rough or Surges** **Possible Causes:** Dirty air filter, Fuel blockage, Carburetor issues, Incorrect oil level. **Solutions:** Clean or replace the air filter. Check fuel lines and remove any blockages. Rebuild or tune the carburetor. Verify oil level and top up as needed. **Loss of Power** **Possible Causes:** Clogged air filter or fuel filter, Worn spark plug, Overloading equipment. **Solutions:** Clean or replace filters. Replace the spark plug. Reduce load or inspect for mechanical issues. **Tips for Enhancing Performance:** **Use Quality Fuel:** Always opt for fresh, quality gasoline. **Store Properly:** During off-season, drain fuel or add fuel stabilizer. **Regularly Inspect Components:** Catch issues early before they escalate. **Follow Manufacturer's Manual:** Adhere to recommended maintenance schedules. **Upgrade Spark Plugs:** Use high-quality spark plugs for better ignition. **Where to Buy Parts and Accessories:** Maintaining your Briggs and Stratton 9T502 is easier when you have access to genuine parts: **Authorized Briggs and Stratton Dealers:** For OEM parts and accessories. **Online Retailers:** Amazon, Briggs & Stratton official website, and other trusted sources. **Local Hardware Stores:** Many stock common replacement parts like oil, filters, and spark plugs. **Final Thoughts:** Is the Briggs and Stratton 9T502 Right for You? The Briggs and Stratton 9T502 continues to be a dependable, efficient engine choice for outdoor power equipment. Its straightforward design, ease of maintenance, and proven durability make it suitable for a wide range of applications. Whether you're repairing a mower or building a custom project, understanding its features and maintenance needs will help ensure long-lasting performance. Investing in a Briggs and Stratton 9T502 means investing in reliable power that gets the job done, season after season. Proper care and regular maintenance are the keys to maximizing its lifespan and performance. With the right knowledge, you can troubleshoot issues confidently and keep your outdoor equipment running smoothly for years to come. **Remember:** Always refer to the official Briggs and Stratton manual for specific instructions related to your engine model, and consult a professional if you encounter complex issues beyond basic troubleshooting.

QuestionAnswer

What are the main features of the Briggs and Stratton 9T502 engine?

The Briggs and Stratton 9T502 engine is a 12.5 HP horizontal shaft engine known for its durability, easy starting, and reliable performance in lawn mowers and outdoor power equipment. It features a cast iron sleeve, low oil shutdown, and a ready-start system for convenient operation.

What common issues should I look out for with the Briggs and Stratton 9T502?

Common issues include difficulty starting, loss of power, or oil leaks. These problems often stem from dirty carburetors, old spark plugs, or clogged air filters. Regular maintenance such as cleaning the carburetor, replacing spark plugs, and checking oil levels can prevent these issues.

Is the Briggs and Stratton 9T502 compatible with specific lawn mower models?

Yes, the Briggs and Stratton 9T502 engine is commonly used in various riding mowers and lawn tractors. Always ensure compatibility by checking the engine specifications and mounting configurations with your specific mower model before installation.

How do I perform routine maintenance on the Briggs and Stratton 9T502 engine?

Routine maintenance includes checking and changing the oil regularly, cleaning or replacing the air filter, inspecting and replacing the spark plug, and ensuring the fuel system is clean. Refer to the user manual for detailed maintenance intervals and procedures.

Can I upgrade or modify the Briggs and Stratton 9T502 engine for better performance?

While some enthusiasts may upgrade components like air filters or carburetors, modifying the engine can void warranties and affect reliability. It's best to consult with a professional or authorized service center before attempting performance modifications.

Where can I find genuine replacement parts for the Briggs and Stratton 9T502?

Genuine replacement parts can be purchased through authorized Briggs and Stratton dealers, online retailers, or the official Briggs and Stratton website. Using authentic parts ensures optimal performance and longevity of the engine.

Related keywords: Briggs and Stratton, 9T502, lawn mower engine, small engine, replacement parts, engine repair, outdoor equipment, engine carburetor, spark plug, engine troubleshooting, lawn mower maintenance

Motorino avviamento briggs e stratton

Motorino avviamento Briggs e Stratton: Guida Completa per la Scelta e la Manutenzione

Se possiedi un motore Briggs e Stratton, uno dei componenti più critici per il suo funzionamento è sicuramente il motorino avviamento. Questo dispositivo, spesso sottovalutato, è responsabile di avviare il motore in modo affidabile e rapido. In questo articolo, esploreremo tutto ciò che c'è da sapere sul motorino avviamento Briggs e Stratton, dalla sua funzione, alle tipologie disponibili, fino ai consigli di manutenzione e come scegliere il modello più adatto alle tue esigenze.

Cos'è il motorino avviamento Briggs e Stratton?

Il motorino avviamento Briggs e Stratton è un componente elettrico di fondamentale importanza nei motori di piccole e medie dimensioni, come quelli di generatori, tagliaerba, trattorini e motocoltivatori. La sua funzione principale è quella di ruotare il volano del motore, permettendo l'avvio del ciclo di combustione. Quando premi l'interruttore di avviamento, il motorino si attiva, facendo girare il volano e, di conseguenza, avviando il motore. Dopo il minimo di giri, il motore si stabilizza e inizia a funzionare normalmente.

Componenti principali del motorino avviamento Briggs e Stratton

Il motorino avviamento è composto da diversi elementi chiave, tra cui:

- Motore elettrico:** il cuore del dispositivo, alimentato da una batteria o dall'impianto elettrico del motore.
- Solenoido di avviamento:** un relè che permette di inviare corrente al motore elettrico al momento dell'avvio.
- Puleggia e ingranaggi:** trasferiscono la rotazione al volano del motore.
- Cavi e connettori:** collegano elettricamente il motorino alla batteria e all'interruttore di avviamento.

Tipologie di motorini avviamento Briggs e Stratton

Esistono diverse tipologie di motorini avviamento progettati per adattarsi a vari modelli di motori Briggs e Stratton. Le principali sono:

- Motorini avviamento a spazzola:** Questa è la tipologia più comune e tradizionale, composta da spazzole di carbone che trasmettono corrente al rotore. È affidabile e facilmente reperibile.
- Motorini brushless (senza spazzole):** Più avanzati, offrono maggiore efficienza, minore usura e una maggior durata nel tempo. Sono più silenziosi e richiedono meno manutenzione.
- Motorini di avviamento a volano:** Utilizzati in motori di grandi dimensioni, combinano il motorino con un sistema di volano per facilitare l'avvio.

Sintomi di un motorino avviamento Briggs e Stratton difettoso

Quando il motorino avviamento presenta problemi, riconoscere i sintomi può aiutarti a intervenire tempestivamente:

- Impossibilità di avviare il motore:** clic o assenza di risposta quando premi l'interruttore.
- Rumori strani:** cigolii, battiti o sforzi eccessivi durante l'avvio.
- Fumo o surriscaldamento:** il motorino si surriscalda o emette fumo durante l'uso.
- Rotazione lenta o irregolare:** il motore non raggiunge i giri necessari per l'avvio.

Se riscontri uno o più di questi sintomi, potrebbe essere necessario riparare o sostituire il motorino avviamento.

Come scegliere il motorino avviamento Briggs e Stratton giusto

Per garantire il corretto funzionamento del tuo motore Briggs e Stratton, è fondamentale scegliere il motorino avviamento

compatibile. Ecco alcuni aspetti da considerare:

- Compatibilità con il modello di motore**Ogni motorino avviamento è progettato per specifici modelli di motore Briggs e Stratton. Consulta il manuale del tuo apparecchio o il numero di modello per trovare il componente compatibile.
- Potenza e tensione**Assicurati che il motorino abbia la stessa potenza e tensione di quello originale. La maggior parte dei motorini funziona a 12V, ma verifica sempre i dati tecnici.
- Tipo di motore (spazzola o brushless)**Se desideri maggiore affidabilità e minore manutenzione, opta per un motorino brushless.
- Qualità e marca**Acquista prodotti di marche affidabili e garantite per assicurarti durabilità e performance ottimali.

Installazione e manutenzione del motorino avviamento Briggs e Stratton

L'installazione di un motorino avviamento Briggs e Stratton richiede attenzione e precisione. Ecco una guida passo passo:

- Spegnere e scollegare l'alimentazione del motore.**
- Rimuovere eventuali coperture o pannelli protettivi.**
- Disconnettere i cavi del motorino difettoso, annotando le connessioni.**
- Rimuovere le viti di fissaggio e estrarre il motorino vecchio.**
- Installare il nuovo motorino, fissandolo con le viti e collegando correttamente i cavi.**
- Verificare che tutti i collegamenti siano saldi e corretti.**
- Rimontare eventuali coperture e testare l'avvio del motore.**

Per mantenere il motorino avviamento in ottime condizioni, è importante effettuare controlli periodici:

- Verificare lo stato delle connessioni elettriche.**
- Controllare la presenza di sporco, polvere o corrosione.**
- Lubrificare i componenti mobili se raccomandato dal produttore.**
- Sostituire le spazzole di carbone quando usurate.**

Quando è il momento di sostituire il motorino avviamento Briggs e Stratton?

Sostituire il motorino avviamento può essere necessario in presenza di:

- Problemi ricorrenti di avviamento, anche dopo riparazioni.**
- Rumori anomali durante l'avvio.**
- Fumo o surriscaldamento eccessivo.**
- Componenti visibilmente danneggiati o corrosi.**

Una sostituzione tempestiva garantirà il corretto funzionamento del motore e ne prolungherà la vita utile.

Dove acquistare un motorino avviamento Briggs e Stratton

Puoi trovare il motorino avviamento Briggs e Stratton presso:

- Rivenditori autorizzati Briggs e Stratton**
- Negozi di ricambi per motori e macchinari agricoli**
- Online su siti specializzati e marketplace affidabili**

Prima di acquistare, verifica sempre il modello esatto e le specifiche tecniche per assicurarti di ricevere il componente corretto.

ConclusioniIl motorino avviamento Briggs e Stratton è un elemento fondamentale per il funzionamento affidabile dei tuoi motori. Conoscere le sue caratteristiche, i segnali di malfunzionamento e le modalità di manutenzione ti permetterà di mantenerlo in ottime condizioni e di intervenire tempestivamente in caso di problemi. Ricorda di scegliere sempre componenti compatibili e di affidarti a professionisti per l'installazione e la riparazione. Con le giuste attenzioni, il tuo motorino avviamento Briggs e Stratton ti garantirà anni di prestazioni efficienti e senza problemi.

Motorino avviamento Briggs e Stratton: una panoramica completa per appassionati e professionisti

IntroduzioneMotorino avviamento Briggs e Stratton rappresenta uno dei componenti più essenziali per il corretto funzionamento di motori a benzina di piccole e medie dimensioni, comunemente utilizzati in motoseghe, tagliaerba, generatori di corrente e altre apparecchiature da giardinaggio o industriali. La sua affidabilità e efficienza sono fondamentali per garantire un

avviamento rapido e senza problemi del motore. In questo articolo, esploreremo in modo dettagliato cos'è un motorino avviamento Briggs e Stratton, come funziona, le sue caratteristiche principali, i problemi più comuni e come effettuare manutenzione e sostituzione, offrendo una guida completa sia ai professionisti che agli appassionati di fai-da-te. Cos'è e a cosa serve il motorino di avviamento Briggs e Stratton

Definizione e funzioni principali Il motorino avviamento Briggs e Stratton è un componente elettromeccanico che ha il compito di avviare il motore a combustione interna. Quando si aziona l'interruttore di avviamento, il motorino riceve energia dalla batteria o, in alcuni casi, da un sistema di accumulo energetico, e si mette in moto facendo girare il volano del motore. Questa rotazione iniziale permette di avviare la combustione, che a sua volta mette in moto il motore principale.

Componenti principali Il motorino di avviamento Briggs e Stratton si compone di:

- Motore elettrico:** il cuore del sistema, che fornisce la rotazione necessaria.
- Ingranaggi di interfaccia:** collegano il motorino al volano del motore.
- Pulsante di avviamento o chiave di accensione:** dispositivo di comando che attiva il motorino.
- Sistema di alimentazione:** generalmente collegato alla batteria.
- Cavi e connettori:** per il collegamento elettrico.

Come funziona il motorino avviamento Briggs e Stratton Il processo di avviamento del motorino avviamento Briggs e Stratton si può riassumere in alcuni passaggi chiave:

- Attivazione:** premendo il pulsante di avviamento o girando la chiave, si invia un segnale elettrico al motorino.
- Conversione dell'energia:** il motore elettrico si avvia grazie all'energia elettrica fornita dalla batteria.
- Rotazione del volano:** il motorino gira e tramite gli ingranaggi trasferisce la rotazione al volano del motore.
- Accensione del motore:** il movimento del volano fa partire la combustione interna, portando il motore in funzione.
- Disattivazione:** una volta avviato, il sistema si disconnette automaticamente dal motorino, che si ferma.

Differenze rispetto ad altri sistemi di avviamento

- Avviamento manuale:** tramite tiraggio di una corda.
- Avviamento elettrico:** con motorino di avviamento Briggs e Stratton, più rapido e meno faticoso.
- Avviamento a pedale:** in alcune applicazioni industriali o agricole.

Il motorino Briggs e Stratton si distingue per l'affidabilità e la semplicità di utilizzo, risultando ideale per motori di dimensioni medio-piccole.

Caratteristiche tecniche e varianti del motorino avviamento Briggs e Stratton

Tipologie di motorini Briggs e Stratton L'azienda produce diverse varianti di motorini di avviamento, differenziate per:

- Potenza:** da 0,5 kW a oltre 1,0 kW.
- Dimensioni:** compatte o più robuste, a seconda delle applicazioni.
- Tipo di collegamento:** con o senza riduttore di velocità.
- Sistema di innesco:** con o senza sistema di avviamento rapido.

Specifiche tecniche principali

- Tensione di esercizio:** solitamente 12V o 24V.
- Corrente di avviamento:** variabile in base alla potenza.
- Durata di vita:** generalmente tra 500 e 2000 avviamenti, a seconda delle condizioni di utilizzo.
- Materiali:** componenti resistenti alla corrosione e alle alte temperature.

Innovazioni e miglioramenti recenti Negli ultimi anni, Briggs e Stratton ha introdotto motori di avviamento con:

- Magneti permanenti:** per una maggiore efficienza.
- Sistema di raffreddamento migliorato.**
- Tecnologia di riduzione del rumore.**
- Sistema di protezione contro le sovracorrenti.**

Problemi più comuni e come risolverli

Segnali di malfunzionamento Il motorino non si avvia o fa rumore di clic. Il motore si avvia ma si spegne subito. Rumori anomali durante l'avviamento. La batteria si scarica frequentemente. Cause frequenti

- Batteria scarica o difettosa:** il problema più comune. La soluzione è la sostituzione o la ricarica.
- Connessioni elettriche allentate o corrose:** verificare e riparare i cavi.
- Motorino di avviamento usurato:** necessita di manutenzione o sostituzione.
- Ingranaggi di interfaccia usurati:** sostituire se

danneggiati. Problemi di alimentazione: filtro dell'aria sporco, carburante vecchio. Come diagnosticare e risolvere. Verificare la batteria: testare tensione e corrente. Controllare le connessioni: assicurarsi che siano salde e prive di corrosione. Testare il motorino: collegandolo ad una fonte di energia e ascoltando eventuali rumori anomali. Ispezionare gli ingranaggi: verificare usura o rottura. Interventi di riparazione: sostituzione di parti usurate o danneggiate, lubrificazione di componenti mobili. Manutenzione e sostituzione del motorino avviamento Briggs e Stratton. Come mantenere efficiente il sistema. Pulizia periodica: rimuovere polvere e sporco dai componenti. Controllo delle connessioni: assicurarsi che siano salde e prive di corrosione. Verifica della batteria: mantenere la carica o sostituirla se necessario. Lubrificazione: applicare olio o spray specifico sugli ingranaggi. Test di funzionamento: avviare regolarmente il motore per verificarne il corretto funzionamento. Quando sostituire il motorino di avviamento. Se presenta evidenti danni fisici, come rotture o deformazioni. Se dopo riparazioni continue non funziona più correttamente. Dopo un numero elevato di cicli di avviamento, che indica usura avanzata. Se i costi di riparazione superano quelli di una sostituzione. Come sostituire il motorino di avviamento Briggs e Stratton. Preparare gli strumenti: chiavi a brugola, cacciaviti, guanti. Scollegare la batteria: per evitare cortocircuiti. Rimuovere le viti di fissaggio: solitamente presenti sul supporto. Disconnettere i collegamenti elettrici: annotare la posizione per il rimontaggio. Rimuovere il motorino difettoso. Installare quello nuovo: fissarlo saldamente e riconnettere i collegamenti. Ricollegare la batteria e avviare il motore per testare il funzionamento.

Conclusioni Il motorino avviamento Briggs e Stratton è un componente fondamentale per garantire un avvio rapido e affidabile di motori a benzina di piccole e medie dimensioni. La sua corretta manutenzione, insieme a una diagnosi tempestiva dei problemi, può prolungarne la vita operativa e prevenire inconvenienti durante le operazioni di lavoro o di svago. Grazie alle innovazioni tecnologiche e alla qualità dei materiali impiegati, Briggs e Stratton offre prodotti durevoli e performanti, pensati per soddisfare le esigenze di utenti professionisti e amatoriali. Per chi possiede attrezzature equipaggiate con motorini Briggs e Stratton, è fondamentale conoscere le basi di manutenzione e riparazione, e affidarsi a tecnici specializzati in caso di guasti complessi. Con

QuestionAnswer

Come posso avviare correttamente un motorino di avviamento Briggs & Stratton?

Per avviare correttamente un motorino Briggs & Stratton, assicurati che la batteria sia carica, controlla che il commutatore di accensione sia su 'On', inserisci la chiave di avviamento e premi il pulsante di avviamento o utilizza la chiave per avviare il motore. Verifica inoltre che non ci siano ostacoli o problemi di carburante.

Quali sono i segnali che indicano un motorino di avviamento Briggs & Stratton difettoso?

Segnali di un motorino di avviamento difettoso includono: rumori insoliti durante l'avviamento, impossibilità di avviare il motore, la batteria si scarica rapidamente, o il motorino non si aziona affatto nonostante la pressione sul pulsante di avviamento.

Come posso sostituire un motorino di avviamento Briggs & Stratton guasto?

Per sostituire il motorino di avviamento Briggs & Stratton, scollega la batteria, rimuovi le viti di fissaggio del vecchio motorino, scollega i collegamenti elettrici e montane il nuovo seguendo le istruzioni del manuale. Ricontrolla tutti i collegamenti e prova l'avviamento per verificare il corretto funzionamento.

Quali sono i problemi più comuni con i motorini di avviamento Briggs & Stratton?

I problemi più comuni includono il motorino che non si aziona, rumori anomali durante l'avvio, batteria scarica o mal funzionante, e collegamenti elettrici allentati o corrosi. A volte il motorino può anche bloccarsi a causa di usura o accumulo di sporco.

Come posso mantenere il motorino di avviamento Briggs & Stratton in buone condizioni?

Per mantenere il motorino di avviamento in buone condizioni, pulisci regolarmente i contatti elettrici, verifica che le connessioni siano strette e prive di corrosione, assicurati che la batteria sia carica e in buone condizioni, e effettua controlli periodici per eventuali segni di usura o danni.

Posso riparare un motorino di avviamento Briggs & Stratton da solo o è meglio rivolgersi a un professionista?

Se hai competenze di base in elettronica e meccanica, puoi tentare di riparare il motorino di avviamento Briggs & Stratton seguendo le istruzioni appropriate. Tuttavia, per problemi complessi o se non sei sicuro delle procedure, è consigliabile rivolgersi a un tecnico specializzato per garantire una riparazione sicura e efficace.

Related keywords: motore avviamento briggs e stratton, motorino avviamento motore benzina, avviatore motore briggs e stratton, starter motor briggs e stratton, avviamento motore tosaerba briggs e stratton, motore avviamento motosega briggs e stratton, componente avviamento briggs e stratton, motorino avviamento motocoltivatore briggs e stratton, parte avviamento motore briggs e stratton, avviamento motore generatore briggs e stratton

Briggs and stratton model 130232

Briggs and Stratton Model 130232: The Ultimate Guide to Your Lawn Mower Engine

Briggs and Stratton model 130232 is a popular engine model widely used in lawn mowers and outdoor power equipment. Known for its durability, reliability, and efficient performance, this model has become a favorite among homeowners and professional landscapers alike. Whether you're troubleshooting, performing maintenance, or considering a replacement, understanding the features and specifications of Briggs and Stratton 130232 is essential. This comprehensive guide covers everything you need to know about this engine model, from its specifications to maintenance tips, ensuring optimal performance and longevity.

Overview of Briggs and Stratton Model 130232

What is the Briggs and Stratton Model 130232? Briggs and Stratton 130232 is a small gasoline engine designed primarily for residential lawn mowers. It is part of Briggs and Stratton's series of horizontal shaft engines that are known for their simplicity, ease of use, and dependability. The model is recognized for its straightforward design, making it accessible for both professional repairs and DIY enthusiasts.

Key Features of Briggs and Stratton 130232

- Engine Type:** 4-stroke, air-cooled, horizontal shaft engine
- Displacement:** 123 cc
- Power Output:** Approximately 3.5 horsepower (HP)
- Fuel Tank Capacity:** Around 1.3 quarts (1.2 liters)
- Starting System:** Recoil start (pull-start)
- Oil Capacity:** 20 oz (0.6 liters)
- Cooling System:** Air-cooled with fins for heat dissipation

Common Applications

Lawn mowers
Snow blowers
Pressure washers
Small outdoor power equipment

Specifications and Technical Details

Engine Dimensions and Weight

- Dimensions:** Approximately 16 inches in length, 12 inches in width, and 15 inches in height
- Weight:** Around 35 pounds, making it relatively lightweight for outdoor engines

Fuel and Oil Requirements

- Fuel Type:** Regular unleaded gasoline (minimum 87 octane)
- Oil Type:** SAE 30 oil for temperatures above 32°F; 5W-30 or 10W-30 for colder climates
- Oil Capacity:** 20 ounces (0.6 liters)
- Fuel Efficiency:** Approximately 0.4 gallons per hour under typical load

Performance Metrics

- Maximum RPM:** 3600 RPM
- Power Output:** 3.5 HP, suitable for most residential lawn mower tasks
- Starting System:** Recoil pull-start, with some models compatible with electric start options (if equipped)

Maintenance Tips for Briggs and Stratton 130232

Proper maintenance ensures your engine runs smoothly and lasts longer. Here are essential tips:

Regular Inspection and Cleaning

- Air Filter:** Clean or replace every 25 hours of operation to prevent dirt from entering the engine
- Spark Plug:** Check and replace annually; gapped to manufacturer specifications
- Fuel System:** Drain old fuel after 30 days of storage; clean carburetor if the engine runs rough
- Oil Change Procedures:** Warm up the engine for a few minutes to loosen sludge. Turn off the engine and disconnect the spark plug wire for safety. Drain the oil through the drain plug or by tilting the engine (consult manual). Refill with fresh oil to the recommended level. Check for leaks and reconnect the spark plug wire.
- Spark Plug Maintenance:** Remove the spark plug using a spark plug wrench. Inspect for carbon deposits or damage. Clean with a wire brush or replace if necessary. Gapping: Ensure the gap matches the manufacturer's specifications (usually around 0.030 inches).
- Fuel System Care:** Use fresh, clean fuel. Add fuel stabilizer if storing the mower for extended periods. Clean the carburetor annually or if engine performance declines.

Troubleshooting Common Issues with Briggs and Stratton 130232

Engine Won't Start

- Check the fuel level and quality.
- Inspect the spark plug and replace if fouled or damaged.
- Ensure the recoil starter is functioning.

correctly
Clean or replace the air filter
Engine Surging or Running Rough
Clean or replace the air filter
Adjust carburetor settings if necessary
Check for clogged fuel lines or dirty fuel filter
Perform a carburetor cleaning or rebuild
Loss of Power
Check for clogged air intake or exhaust
Inspect the spark plug and replace if worn
Verify that the oil level is adequate
Ensure the blade or attached equipment is not obstructed
Engine Overheating
Clean cooling fins and ensure proper airflow
Avoid overloading the engine
Check for proper oil level and quality
Replacement Parts and Accessories
Maintaining or repairing your Briggs and Stratton 130232 may require replacement parts. Here are some common components:
Spark plugs (e.g., Champion RC12YC)
Air filters (foam or paper types)
Oil filters (if applicable)
Carburetor kits for cleaning or rebuilding
Fuel filters
Recoil starter assembly (if needed)
Accessories:
Engine oil (SAE 30, 5W-30, or 10W-30)
Fuel stabilizer
Replacement recoil cords and handles
Upgrading or Replacing Your Briggs and Stratton 130232
When to Consider Replacement
Persistent starting problems despite repairs
Significant engine damage or wear
Increased maintenance costs outweighing benefits of repair
Desire for higher performance or newer features
Choosing a Replacement Engine
If replacement becomes necessary, consider:
Matching the engine's horsepower and displacement
Compatibility with your mower or equipment model
Availability of parts and service support
Upgrading to newer models with improved features (e.g., electric start, quieter operation)
Conclusion
Understanding the specifications, maintenance requirements, and troubleshooting tips for the Briggs and Stratton model 130232 can significantly extend the life of your outdoor power equipment. This engine model remains a dependable choice for various residential applications, provided it receives proper care. Regular maintenance, timely repairs, and using quality replacement parts will ensure your engine continues to perform optimally year after year. Whether you're a DIY enthusiast or a professional landscaper, knowing the ins and outs of Briggs and Stratton 130232 empowers you to keep your outdoor tools in excellent condition, ensuring a pristine lawn and efficient operation.
Frequently Asked Questions (FAQs)
Q1: Is Briggs and Stratton 130232 compatible with electric start systems?
A: The standard Briggs and Stratton 130232 model features a recoil start. Some variants or compatible kits may allow for electric start installation, but it's essential to verify compatibility with your specific mower or equipment.
Q2: How often should I perform maintenance on this engine?
A: Basic maintenance such as oil changes, air filter cleaning, and spark plug inspection should be done after every 25-50 hours of use or at least once a season.
Q3: Can I use synthetic oil with Briggs and Stratton 130232?
A: Yes, synthetic oils like 10W-30 synthetic can be used for better performance and colder weather operation. Always follow the manufacturer's oil recommendations.
Q4: What is the lifespan of Briggs and Stratton 130232?
A: With proper maintenance, this engine can last 5-10 years or more, depending on usage and care.
Q5: Where can I find replacement parts for Briggs and Stratton 130232?
A: Authorized Briggs and Stratton dealers, online parts retailers, and the manufacturer's website are reliable sources for genuine replacement parts.
By understanding the features, maintenance, and troubleshooting methods for Briggs and Stratton model 130232, you can ensure your outdoor equipment remains reliable and efficient for years to come. Proper care and timely repairs are key to maximizing your engine's performance and lifespan.

Briggs and Stratton Model 130232 is a well-known engine series that has garnered attention among lawn equipment enthusiasts, professional landscapers, and homeowners alike. Renowned for its durability, efficiency, and reliable performance, this engine model exemplifies Briggs and Stratton's commitment to quality engineering. Whether you're considering a replacement engine for your outdoor equipment or exploring options for new machinery, understanding the features, performance, and potential drawbacks of the Model 130232 is essential. This comprehensive review aims to provide an in-depth analysis of the Briggs and Stratton Model 130232, covering its technical specifications, performance, maintenance considerations, and overall value.

Overview of Briggs and Stratton Model 130232

Briggs and Stratton Model 130232 is a small gasoline-powered engine primarily used in lawn mowers, tillers, generators, and other outdoor power equipment. Part of Briggs and Stratton's line of small engines, the 130232 model is recognized for its straightforward design, ease of use, and dependable operation. It is generally classified as a vertical-shaft, 4-cycle engine, offering a good balance of power and efficiency for residential and light commercial applications. This model is often praised for its simplicity in operation and maintenance, making it an attractive choice for DIY enthusiasts and professional operators alike. The engine's specifications and features contribute significantly to its reputation as a durable, long-lasting power source.

Technical Specifications

Understanding the technical specifications of the Briggs and Stratton 130232 helps gauge its suitability for various applications:

- Engine Type:** Vertical-shaft, 4-cycle gasoline engine
- Displacement:** Approximately 5.0 HP (horsepower)
- Cylinder Configuration:** Single-cylinder
- Cooling System:** Air-cooled
- Starting System:** Recoil pull-start (electric start available in some variants)
- Fuel Capacity:** Around 1.3 quarts (1.2 liters)
- Lubrication:** Oil bath, with splash lubrication
- Carburetor:** Muffler with a built-in governor for speed regulation
- Dimensions:** Compact design, approximately 15 x 12 x 14 inches (varies with specific model variations)
- Weight:** Approximately 35-40 pounds

These specifications make the 130232 a versatile and manageable engine suitable for a wide range of outdoor equipment.

Performance and Reliability

Power Output

The Briggs and Stratton 130232 engine delivers about 5 horsepower, which is sufficient to power most residential lawn mowers, tillers, and small generators. Its power output is consistent, thanks to the built-in governor that maintains steady engine speed under varying loads. This stability ensures smooth operation and reduces the risk of damage to attached equipment.

Ease of Use

One of the standout features of this model is its straightforward operation. The recoil pull-start mechanism is reliable, and in newer variants, an electric start option enhances convenience. The engine's design allows for easy access to parts for routine maintenance such as oil changes, spark plug replacement, and air filter cleaning.

Durability and Longevity

Briggs and Stratton engines are renowned for their durability, and the 130232 is no exception. With proper maintenance, this engine can last for many years, providing consistent performance. Its air-cooled system is designed to withstand extensive use, and the robust construction of components minimizes wear and tear.

Fuel Efficiency

This engine model offers decent fuel economy, which is vital for prolonged use. Its carburetor is calibrated to optimize fuel consumption, and the engine's design minimizes waste, making it economical for regular use.

Features and Benefits

The Briggs and Stratton 130232 comes equipped with several features that enhance its usability:

- Easy Maintenance:** Designed for

straightforward oil changes and tune-ups

Built-in Governor: Ensures consistent speed and prevents overload

Recoil Start: Reliable pull-start mechanism, with some models offering electric start

Compact Design: Fits comfortably into various equipment frames

Durable Materials: Metal components built for longevity

Compatibility: Suitable for a wide range of outdoor equipment attachments

Pros: Reliable starting performance Durable construction Good power-to-weight ratio Easy to service and maintain Widely available parts and accessories

Cons: Recoil start may be challenging for some users, especially in cold weather No standard electric start on basic models Slightly heavy for some users to carry or maneuver Can be noisy during operation Requires regular oil and filter changes to maintain performance

Applications and Compatibility

The Briggs and Stratton 130232 engine is predominantly used in:

- Lawn Mowers:** Both push and riding models
- Tillers and Cultivators:** Providing the necessary power for soil preparation
- Generators:** Compact portable units for outdoor events or emergencies
- Pressure Washers:** For heavy-duty cleaning tasks
- Small Utility Vehicles:** Custom projects requiring a reliable power source

Its versatility stems from its straightforward design and robust performance, making it a preferred choice for various outdoor power tools.

Maintenance and Troubleshooting

Proper maintenance is crucial in ensuring the longevity and optimal performance of the Briggs and Stratton 130232 engine. Here are some tips:

- Regular Oil Changes:** Use recommended oil types and change every 25-50 hours of operation
- Air Filter Cleaning/Replacement:** Prevent dirt and debris from entering the carburetor
- Spark Plug Inspection:** Replace if fouled or worn to ensure smooth starting
- Fuel System Checks:** Use fresh fuel and clean the carburetor periodically
- Cooling Fins Cleaning:** Remove debris to prevent overheating

Common Issues:

- Hard Starting:** Often due to stale fuel, dirty spark plug, or clogged air filter
- Engine Surging:** May result from carburetor issues or governor adjustments
- Loss of Power:** Could indicate worn piston rings or dirty fuel injectors
- Overheating:** Usually caused by blocked cooling fins or low oil levels

Troubleshooting typically involves inspecting these components and following the manufacturer's guidelines for repairs. Replacement parts are readily available, and many users find that routine maintenance extends the engine's service life significantly.

Pricing and Availability

The Briggs and Stratton 130232 typically falls into the mid-range price category for small engines, with new units generally costing between \$150 and \$250, depending on specifications and included features. Used or refurbished models can be found at lower prices through online marketplaces and local dealers. Availability is widespread, as Briggs and Stratton engines are stocked by most power equipment retailers, hardware stores, and online outlets. Parts for maintenance and repair are also readily accessible, which simplifies ongoing upkeep.

Conclusion

The Briggs and Stratton Model 130232 is a dependable, versatile, and well-engineered small engine suitable for a variety of outdoor equipment. Its balance of power, durability, and ease of maintenance make it a popular choice among homeowners and professionals alike. While it may have some limitations, such as weight and starting options, these are overshadowed by its proven reliability and broad compatibility. For those seeking an engine that offers consistent performance, straightforward repairability, and extensive availability of parts, the 130232 stands out as an excellent investment. Proper care and routine maintenance will ensure that this engine provides years of efficient service, making it a valuable component in your outdoor power equipment arsenal.

Final Recommendation: If you need a reliable engine for your lawn mower, tiller, or generator, the Briggs and Stratton Model

130232 is an excellent choice. Its proven track record and solid build quality make it a trusted solution for both casual and professional use.

QuestionAnswer

What are the common issues faced with Briggs and Stratton Model 130232?

Common issues include difficulty starting, engine overheating, loss of power, and fuel leaks. Regular maintenance can help prevent these problems.

How do I perform basic maintenance on Briggs and Stratton Model 130232?

Basic maintenance involves checking and replacing the oil, cleaning or replacing the air filter, inspecting the spark plug, and ensuring the fuel system is clean and free of debris.

What type of oil should I use for Briggs and Stratton Model 130232?

Use a high-quality 4-cycle engine oil, typically SAE 30 for warmer climates or 5W-30 for colder temperatures, as recommended in the owner's manual.

How do I troubleshoot starting issues with Briggs and Stratton Model 130232?

Check the fuel supply, ensure the spark plug is clean and properly gapped, inspect the air filter, and verify that the ignition switch is in the correct position. If problems persist, inspect the carburetor for clogs.

Is Briggs and Stratton Model 130232 compatible with specific equipment?

Yes, this engine model is commonly used in various lawn mowers, pressure washers, and other small equipment. Always check the specifications to ensure compatibility.

How often should I change the oil in Briggs and Stratton Model 130232?

It is recommended to change the oil after the first 5 hours of use, then every 25 hours of operation or at least once a season for optimal performance.

Where can I find replacement parts for Briggs and Stratton Model 130232?

Replacement parts can be purchased from authorized Briggs and Stratton dealers, authorized

online retailers, or directly through the Briggs and Stratton official website.

What fuel type is recommended for Briggs and Stratton Model 130232?

Use regular unleaded gasoline with a minimum of 87 octane. Avoid ethanol-blended fuels if possible, or use ethanol treatments to prevent fuel system issues.

Can I perform repairs on Briggs and Stratton Model 130232 myself?

Yes, basic repairs and maintenance can be performed at home with proper tools and knowledge. For complex repairs, it is recommended to consult a professional technician or authorized service center.

Related keywords: briggs and stratton, model 130232, lawn mower engine, small engine parts, replacement engine, Briggs & Stratton parts, engine repair, lawn equipment, model number, engine rebuild