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> PARTSRUN Ignition Coil with Spark Plug for STIHL BR350, BR430, BR450 Backpack Blowers and Sprayers - Installation and Maintenance Guide

PARTSRUN ESBatch3-13116

PARTSRUN Ignition Coil with Spark Plug: Installation and Maintenance Guide

For STIHL BR350, BR430, BR450 Backpack Blowers and Sprayers

1. INTRODUCTION

This instruction manual provides essential information for the safe and effective installation, operation, and maintenance of your PARTSRUN ignition coil and spark plug. Please read this guide thoroughly before attempting any installation or maintenance procedures to ensure proper function and to prevent damage to your equipment or personal injury.

2. PRODUCT OVERVIEW

The PARTSRUN ignition coil and spark plug are designed as direct replacement components for specific STIHL backpack blowers and sprayers. The ignition coil is responsible for generating the high voltage necessary to create a spark at the spark plug, initiating combustion in the engine. The spark plug then delivers this spark into the combustion chamber.



This image displays the PARTSRUN ignition coil and the included spark plug, ready for installation.

Your browser does not support the video tag.

This video demonstrates the PARTSRUN ignition module, showing its components and features relevant to installation in a BR350 blower.

3. COMPATIBILITY

This PARTSRUN ignition coil and spark plug (Part Number 4244-400-1307, Model ESBatch3-13116) is compatible with the following STIHL models:

- STIHL BR350 Backpack Blower
- STIHL BR350Z Backpack Blower
- STIHL BR430 Backpack Blower
- STIHL BR430Z Backpack Blower
- STIHL BR450 Backpack Blower
- STIHL SR430 Sprayer
- STIHL SR440 Sprayer
- STIHL SR450 Sprayer

Always verify your equipment's model number and original part number to ensure correct fitment before installation.

4. SAFETY INFORMATION

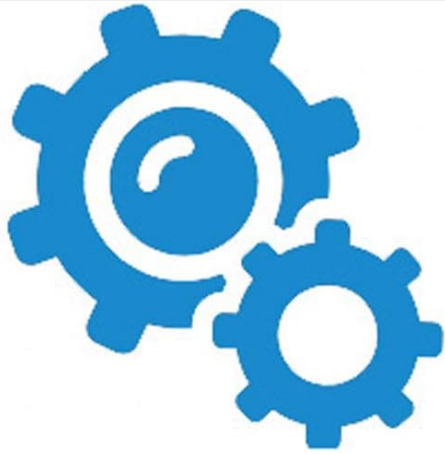
Always prioritize safety when working with power equipment. Failure to follow safety precautions can result in serious injury or equipment damage.

- **Disconnect Spark Plug:** Before performing any maintenance or installation, always disconnect the spark plug wire to prevent accidental engine start-up.
- **Wear Protective Gear:** Use appropriate personal protective equipment (PPE) such as gloves and eye protection.
- **Work in a Well-Ventilated Area:** Ensure adequate ventilation if working with fuel or cleaning agents.
- **Engine Cool Down:** Allow the engine to cool completely before handling components, as they can be very hot.
- **Follow Manufacturer Guidelines:** Refer to your STIHL equipment's original owner's manual for specific safety instructions and procedures.

5. SETUP AND INSTALLATION

This section outlines the general steps for replacing the ignition coil and spark plug. Specific procedures may vary slightly depending on your STIHL model. Refer to your equipment's service manual for detailed instructions.

1. **Preparation:** Ensure the engine is off and cool. Disconnect the spark plug wire. Remove any covers or shrouds that obstruct access to the ignition coil and spark plug.
2. **Remove Old Spark Plug:** Use a spark plug wrench to carefully remove the old spark plug. Inspect it for wear or fouling.
3. **Remove Old Ignition Coil:** Disconnect any electrical wires leading to the ignition coil. Unbolt the old ignition coil from its mounting points. Note the orientation and wiring connections for reassembly.
4. **Install New Ignition Coil:** Position the new PARTSRUN ignition coil in place. Secure it with the mounting bolts, ensuring it is properly aligned. The air gap between the coil and the flywheel magnets is critical; use a feeler gauge or a business card (typically 0.008-0.012 inches or 0.2-0.3 mm) to set the correct gap before tightening the bolts.
5. **Connect Wiring:** Reconnect all electrical wires to the new ignition coil. Ensure connections are secure.
6. **Install New Spark Plug:** Hand-thread the new PARTSRUN spark plug into the cylinder head to avoid cross-threading. Once finger-tight, use a spark plug wrench to tighten it an additional 1/2 to 3/4 turn for new plugs, or 1/8 to 1/4 turn for used plugs, or as specified by your equipment's manual. Do not overtighten.
7. **Reconnect Spark Plug Wire:** Firmly attach the spark plug wire to the new spark plug.
8. **Reassemble:** Replace any covers or shrouds removed earlier.



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A closer view of the PARTSRUN ignition coil, highlighting its design and connection points.

6. OPERATING INSTRUCTIONS

Once the ignition coil and spark plug are correctly installed, the engine should be ready for operation. The ignition system works automatically to provide the necessary spark for combustion. Ensure all other engine components (fuel, air filter, carburetor) are in good working order for optimal performance.

- **Starting the Engine:** Follow the starting procedure outlined in your STIHL equipment's owner's manual. This typically involves priming, setting the choke, and pulling the starter cord.
- **Engine Performance:** A properly functioning ignition coil and spark plug will contribute to easy starting, smooth idling, and consistent power output.

7. MAINTENANCE

Regular maintenance of your ignition system components can extend their lifespan and ensure reliable engine performance.

- **Spark Plug Inspection:** Periodically remove and inspect the spark plug. Look for signs of wear, carbon buildup, or damage. Replace if necessary. Ensure the spark plug gap is set correctly according to your equipment's specifications.
- **Ignition Coil Inspection:** Check the ignition coil and its wiring for any visible damage, cracks, or loose connections. Ensure the spark plug boot is securely attached and free from damage.
- **Cleaning:** Keep the area around the ignition coil and spark plug clean and free of debris, which can interfere with cooling or electrical connections.

8. TROUBLESHOOTING

If your equipment is experiencing starting issues or poor performance, the ignition system may be a factor. Here are some common troubleshooting steps:

- **No Spark:** If the engine cranks but does not start, and there is no spark at the spark plug, the ignition

coil may be faulty. Test the coil using a spark tester.

- **Weak Spark:** A weak or intermittent spark can lead to hard starting or misfires. This could indicate a failing ignition coil or a fouled spark plug.
- **Fouled Spark Plug:** A spark plug covered in carbon, oil, or fuel residue can prevent a strong spark. Clean or replace the spark plug.
- **Incorrect Coil Gap:** An improperly set air gap between the ignition coil and flywheel can affect spark generation. Re-check and adjust the gap if necessary.
- **Loose Connections:** Ensure all electrical connections to the ignition coil and spark plug are tight and free of corrosion.

If troubleshooting does not resolve the issue, consult a qualified service technician.

9. SPECIFICATIONS

Feature	Specification
Brand	PARTSRUN
Manufacturer Part Number	ESBatch3-13116
OEM Part Number (Cross-reference)	4244-400-1307
Vehicle Service Type	Backpack Blower, Sprayer
Installation Type	Plug In
Connector Gender	Male
Item Weight	0.18 Kilograms (approx. 6.3 ounces)
Package Dimensions	5.63 x 2.44 x 2.36 inches

10. WARRANTY AND SUPPORT

For information regarding product warranty, returns, or technical support, please refer to the PARTSRUN official website or contact the seller directly. Keep your purchase receipt as proof of purchase.