

- Manuals.plus /
- › DABAZUALY /
- › Instruction Manual for DABAZUALY Ignition Coil 4282-400-1310

DABAZUALY 4282-400-1310 Ignition Coil

Instruction Manual for DABAZUALY Ignition Coil

Model: 4282-400-1310 Ignition Coil
Compatible with Stihl BR500, BR550, BR600 Backpack Blowers

- Introduction
- Safety Information
- Package Contents
- Setup &
- Installation
- Operation
- Maintenance
- Troubleshooting
- Specifications
- Warranty
- Support

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of the DABAZUALY Ignition Coil, model 4282-400-1310. This ignition coil is designed as a replacement part for Stihl BR500, BR550, and BR600 series backpack blowers, replacing original coils with part numbers 4282-400-1310, 4282-400-1308, and 4282-400-1305. Proper installation and maintenance are crucial for the optimal performance and longevity of your equipment.



Figure 1.1: Overview of the DABAZUALY Ignition Coil kit, including the ignition coil, spark plug, and connecting wire.

2. SAFETY INFORMATION

Always observe the following safety precautions when handling or installing the ignition coil:

- **Disconnect Power:** Before beginning any installation or maintenance, ensure the backpack blower's engine is turned off and the spark plug wire is disconnected to prevent accidental starting.
- **Wear Protective Gear:** Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves, to protect against potential hazards.
- **Handle with Care:** Ignition coils contain sensitive electronic components. Handle the coil carefully to avoid damage from drops or impacts.
- **Proper Tools:** Use only the correct tools for installation and removal to prevent damage to the coil or the blower.
- **Flammable Materials:** Keep the work area clear of flammable liquids or gases, as sparks can occur during electrical work.
- **Consult Blower Manual:** Refer to your Stihl backpack blower's original instruction manual for specific safety

guidelines and procedures related to engine component replacement.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon opening the package:

- 1 x DABAZUALY Ignition Coil (Model: 4282-400-1310)
- 1 x Spark Plug (Recommended type: CMR6H)



Figure 3.1: Detailed view of the ignition coil and the included spark plug, showing the spark plug boot and wire connection.

4. SETUP & INSTALLATION

This section outlines the general steps for replacing the ignition coil. Specific procedures may vary slightly depending on your Stihl blower model. Always refer to your blower's service manual for detailed instructions.

4.1. Preparation

1. Ensure the blower engine is cool and turned off.
2. Disconnect the spark plug wire from the spark plug.
3. Remove any covers or shrouds that obstruct access to the existing ignition coil.

4.2. Removing the Old Ignition Coil

1. Locate the existing ignition coil. It is typically mounted near the flywheel.
2. Carefully disconnect any electrical wires connected to the coil. Note their positions for reinstallation.

3. Unscrew the mounting bolts that secure the coil to the engine block.
4. Gently remove the old ignition coil.



Figure 4.1: Side profile of the ignition coil, highlighting the mounting holes for secure attachment to the engine block.

4.3. Installing the New Ignition Coil

1. Position the new DABAZUALY ignition coil in the same location as the old one.
2. Align the mounting holes and secure the coil with the original mounting bolts. Do not overtighten.
3. Reconnect all electrical wires to the new coil, ensuring they are securely attached.
4. **Setting the Air Gap:** This is a critical step. A business card or a specific feeler gauge (typically 0.010-0.014 inches or 0.25-0.35 mm) is often used to set the air gap between the coil's laminations and the flywheel magnets. Insert the gauge, push the coil firmly against the flywheel, tighten the mounting bolts, and then remove the gauge.



Figure 4.2: Angled view of the ignition coil, showing the spark plug boot and the general shape for proper fitment.

4.4. Installing the Spark Plug

1. If replacing the spark plug, ensure the new spark plug (CMR6H recommended) has the correct electrode gap. The recommended gap is 0.02 inches (0.5 mm). Use a spark plug gap tool to adjust if necessary.
2. Thread the spark plug into the cylinder head by hand to avoid cross-threading.

3. Once finger-tight, use a spark plug wrench to tighten it an additional $\frac{1}{2}$ to $\frac{3}{4}$ turn for new plugs, or $\frac{1}{8}$ to $\frac{1}{4}$ turn for used plugs. Do not overtighten.
4. Reconnect the spark plug boot firmly to the spark plug.



Figure 4.3: The ignition coil with its integrated spark plug boot and wire, ready for connection to the spark plug.

4.5. Final Steps

1. Reinstall any covers or shrouds removed earlier.
2. Perform a test start to ensure proper operation.

5. OPERATION

The ignition coil is a critical component of the engine's ignition system. Once correctly installed, it works automatically to generate the high voltage required to fire the spark plug. There are no user-adjustable operational settings for the ignition coil itself. Ensure your blower's fuel system, air filter, and carburetor are in good working order for optimal engine performance.

6. MAINTENANCE

The DABAZUALY Ignition Coil is designed for durability and requires minimal direct maintenance. However, regular checks of related components can help ensure its longevity and reliable performance:

- **Spark Plug Inspection:** Periodically inspect the spark plug for wear, fouling, or damage. Replace it if necessary, ensuring the correct gap (0.02 inches / 0.5 mm).
- **Wire Connections:** Check that all electrical connections to the ignition coil and spark plug are clean, tight, and free from corrosion.
- **Coil Cleanliness:** Keep the exterior of the ignition coil clean and free from excessive dirt, oil, or debris, which can affect heat dissipation.
- **Air Gap:** If you suspect issues, re-check the air gap between the coil and the flywheel as described in the installation section.

7. TROUBLESHOOTING

If your Stihl backpack blower experiences ignition issues after installing the new coil, consider the following common problems and solutions:

Problem	Possible Cause	Solution
No Spark at Spark Plug	◦ Incorrect air gap setting. ◦ Loose or corroded electrical connections. ◦ Faulty spark plug. ◦ Kill switch engaged or wiring issue. ◦ Damaged ignition coil (rare for new part).	◦ Re-check and adjust the air gap (0.010-0.014 inches / 0.25-0.35 mm). ◦ Inspect and secure all wire connections. ◦ Test or replace the spark plug. ◦ Ensure kill switch is in "run" position; check wiring. ◦ If all else fails, contact support for further diagnosis.
Engine Runs Poorly / Misfires	◦ Incorrect spark plug gap. ◦ Fouled or worn spark plug. ◦ Fuel system issues (carburetor, fuel filter). ◦ Air filter clogged.	◦ Verify spark plug gap (0.02 inches / 0.5 mm). ◦ Clean or replace the spark plug. ◦ Inspect and service the fuel system and air filter.

If troubleshooting steps do not resolve the issue, it is recommended to consult a qualified service technician or contact DABAZUALY customer support.

8. SPECIFICATIONS

Key specifications for the DABAZUALY Ignition Coil (4282-400-1310):

- **Model Number:** 4282-400-1310 Ignition Coil
- **Replaces Part Numbers:** 4282-400-1310, 4282-400-1308, 4282-400-1305
- **Compatibility:** Stihl BR500, BR550, BR600 Backpack Blowers
- **Maximum Engine Speed (Blower):** 2,500 rpm (as per original blower specifications)
- **Recommended Spark Plug:** CMR6H
- **Spark Plug Electrode Gap:** 0.02 inches (0.5 mm)
- **Dimensions (L x W x H):** Approximately 4.8 x 2.5 x 1.8 inches
- **Item Weight:** Approximately 7.4 ounces (0.21 Kilograms)
- **Installation Type:** Screw-In or Bolt-On

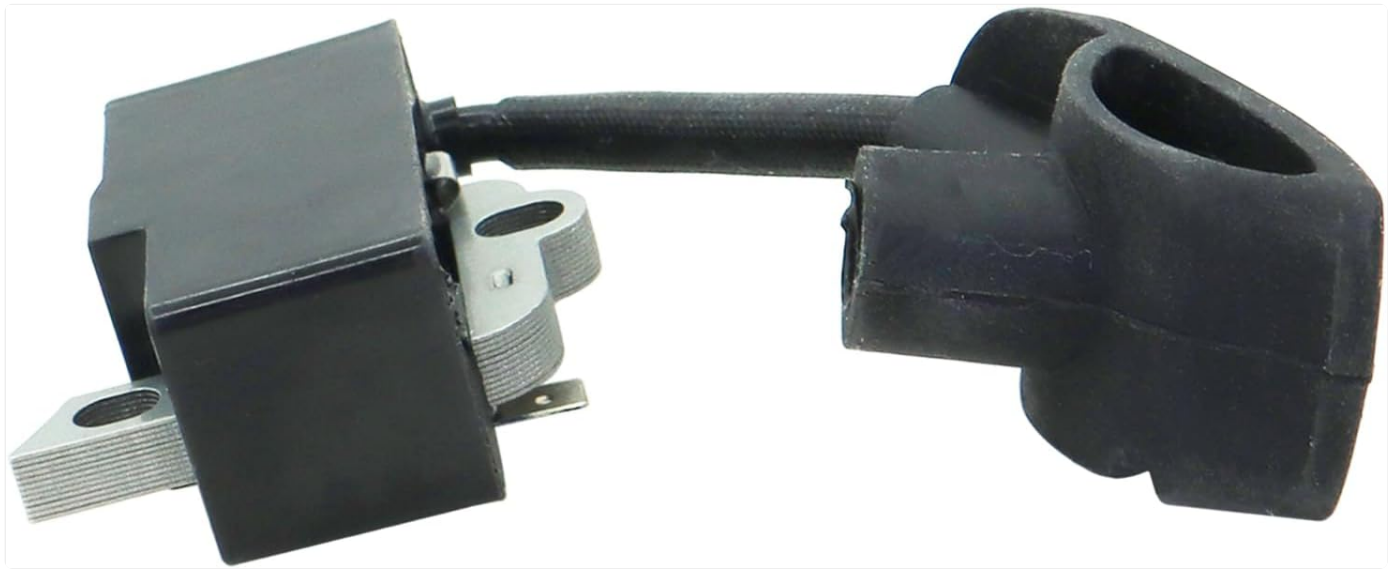


Figure 8.1: Top-down view of the ignition coil, illustrating its compact design and connection points.

9. WARRANTY INFORMATION

DABAZUALY products are manufactured to high-quality standards. For specific warranty terms and conditions, including duration and coverage, please refer to the warranty information provided with your purchase or contact DABAZUALY customer support directly. Keep your proof of purchase for any warranty claims.

10. CUSTOMER SUPPORT

If you have any questions, require technical assistance, or need to report an issue with your DABAZUALY Ignition Coil, please contact our customer support team. For the most efficient service, please have your product model number (4282-400-1310) and purchase details ready.

Manufacturer: DABAZUALY

Seller: SANDIJU (via Amazon)

Please visit the official DABAZUALY website or the seller's page on Amazon for contact information and further support resources.

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