



Manuals.plus /

› Irnyso /

› Irnyso Oil Burners Red Gauge Electrode Setting Gauge Nozzle 3006965 Instruction Manual for Riello Burners

Irnyso 3006965

Irnyso Oil Burners Red Gauge Electrode Setting Gauge Nozzle 3006965 Instruction Manual

For Riello Burner Models 40 F3, BF3, F5, BF5, R35

1. INTRODUCTION

This instruction manual provides essential information for the proper installation, operation, and maintenance of the Irnyso Red Gauge Electrode Setting Gauge and Nozzle Adapter, model 3006965. This tool is designed to assist in the precise setup of oil burner components, ensuring efficient and reliable performance. Please read this manual thoroughly before attempting any installation or adjustment.

2. PRODUCT OVERVIEW

The Irnyso 3006965 is a specialized tool used for setting the electrode gap and placement relative to the nozzle in compatible oil burners. It includes a red gauge for accurate measurements and a nozzle adapter for secure fitting of the nozzle and turbulator disc.



Image 1: The Irnyso Red Gauge Electrode Setting Gauge Nozzle 3006965.

3. COMPATIBILITY

This Irnyso 3006965 Red Gauge Electrode Setting Gauge and Nozzle Adapter is specifically designed for use with the following Riello Burner models:

- Riello Burner Model 40 F3
- Riello Burner Model BF3
- Riello Burner Model F5
- Riello Burner Model BF5
- Riello Burner Model R35

It is compatible with the nozzle adapter and turbulator disc components of these models. Always verify compatibility with your specific burner unit before installation.

OIL BURNERS RED GAUGE ELECTRODE SETTING GAUGE NOZZLE

OIL BURNER ELECTRODE SETTING GAUGE. ACCURATELY SETS ELECTRODE GAP AND PLACEMENT FROM THE NOZZLE BASED ON NOZZLE SPRAY ANGLE.

IGNITOR GAUGE UNIVERSAL ELECTRODE ADJUSTING TOOL THAT ACCURATELY SETS THE ELECTRODES TO THE PROPER ANGLE RELATIVE TO THE DEGREE RATING OF THE NOZZLE ADAPTER, TURBULATOR DISC



Please check whether the accessories you need match

Image 2: Overview of the electrode setting gauge's function and compatible Riello burner models.

4. SETUP AND INSTALLATION

Proper installation of the nozzle and electrode assembly is critical for the safe and efficient operation of your oil burner. Follow these steps carefully:

1. **Determine Firing Rate:** Before proceeding, determine the proper firing rate for your boiler or furnace unit. This involves considering the specific application and selecting the appropriate nozzle and pump pressure to achieve the required heat output from the burner. Consult your burner's primary manual for guidance on firing rate determination.
2. **Remove Existing Nozzle Adapter:** If replacing an existing component, carefully remove the nozzle adapter from the drawer assembly by loosening the retaining screw.
3. **Insert New Nozzle:** Insert the correct nozzle into the nozzle adapter. Ensure it is seated properly and tighten securely. **Do not overtighten**, as this can damage the nozzle or adapter.
4. **Replace Adapter Assembly:** With the new nozzle installed, replace the nozzle adapter assembly into the burner's drawer assembly. Secure it firmly with the retaining screw.
5. **Set Electrode Position:** Use the Irnyso Red Gauge Electrode Setting Gauge to accurately set the electrode gap and placement from the nozzle. This tool helps position the electrodes at the proper angle relative to the nozzle's spray angle, which is essential for efficient ignition. Refer to the operating instructions in Section 5 for detailed guidance on using the gauge.

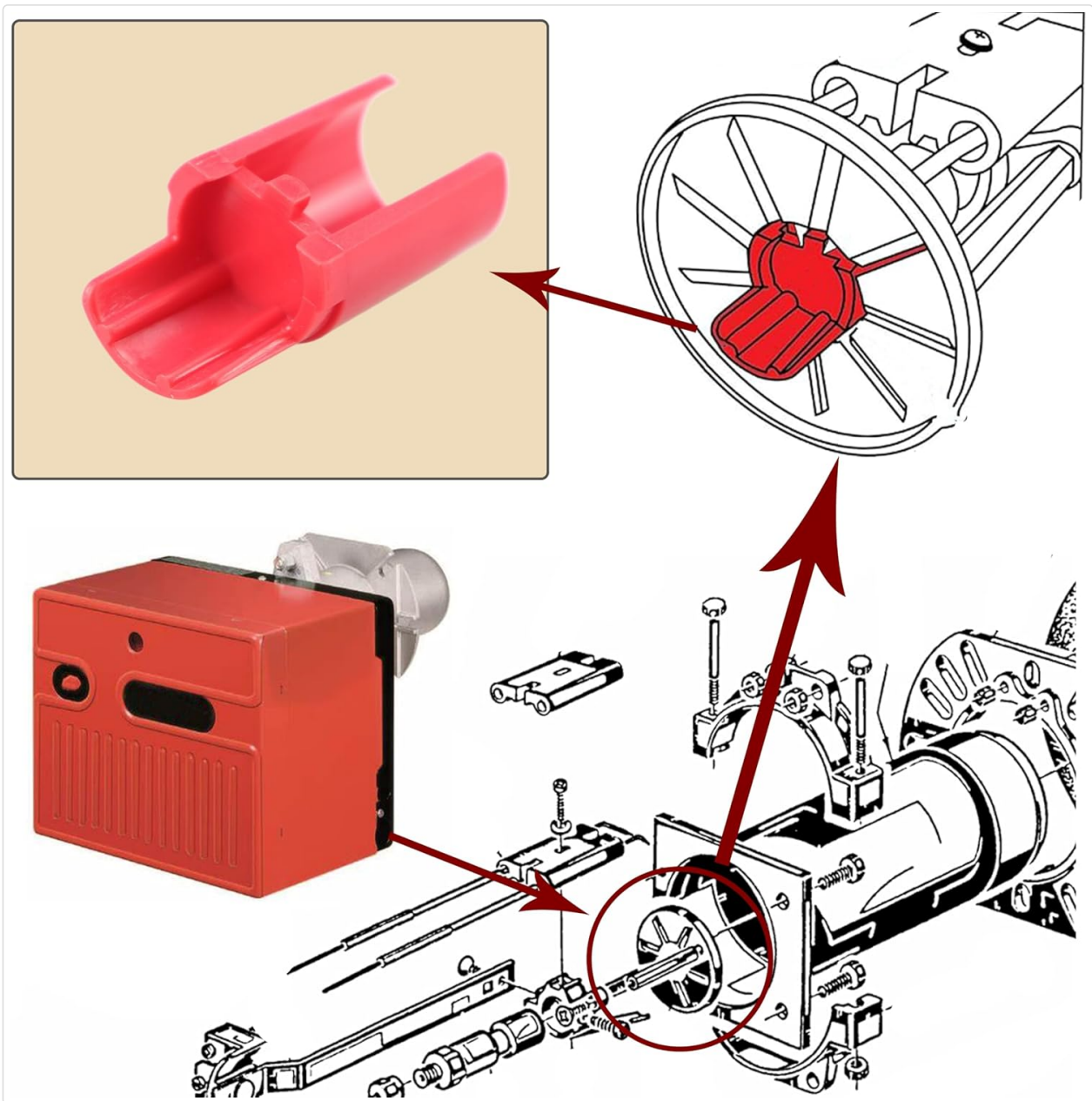


Image 3: Illustrative diagram of the electrode setting gauge's position during installation and adjustment within the burner.

5. OPERATING INSTRUCTIONS (ELECTRODE SETTING)

The Irnyso 3006965 gauge is designed to simplify the precise adjustment of oil burner electrodes. Accurate electrode positioning is crucial for reliable ignition and optimal combustion.

1. **Identify Electrode Position:** Locate the electrodes within the burner assembly. These are typically positioned near the nozzle.
2. **Place the Gauge:** Carefully place the red gauge over the nozzle and electrodes. The gauge is designed to fit snugly, guiding the electrodes into their correct positions.
3. **Adjust Electrodes:** Gently adjust the electrodes until they align with the markings or contours of the gauge. The gauge provides the correct gap and angle relative to the nozzle's spray pattern. This ensures the ignitor spark occurs at the optimal point for fuel atomization and ignition.
4. **Verify Settings:** Once adjusted, carefully remove the gauge and visually inspect the electrode positions. Ensure they are stable and maintain the set gap and angle.
5. **Test Burner:** After all adjustments are made, perform a test firing of the burner according to the manufacturer's instructions to confirm proper operation and ignition.

Note: If you are unsure about any step, it is recommended to consult a qualified HVAC technician.

6. MAINTENANCE

The Irnyso Red Gauge Electrode Setting Gauge is a durable tool. To ensure its longevity and accuracy:

- Store the gauge in a clean, dry place when not in use.
- Avoid dropping or subjecting the gauge to excessive force, which could affect its calibration.
- Clean the gauge with a soft, dry cloth if it becomes dirty. Do not use harsh chemicals.

Regular maintenance of your oil burner system, including periodic inspection of nozzles and electrodes, is recommended to maintain efficiency and prevent issues.

7. TROUBLESHOOTING

This section addresses common issues related to electrode and nozzle setup. If you encounter problems after using the setting gauge, consider the following:

- **No Ignition or Delayed Ignition:** This could indicate an incorrect electrode gap or position. Re-check the electrode settings using the gauge and ensure they are firmly in place. Also, verify the nozzle is clean and correctly installed.
- **Poor Combustion or Sooting:** While often related to fuel-air mixture, incorrect nozzle selection or electrode placement can contribute. Ensure the correct nozzle for your burner's firing rate is installed and electrodes are set precisely.
- **Burner Lockout:** If the burner repeatedly goes into lockout, it may be due to ignition failure. Confirm the electrodes are sparking correctly and are positioned according to the gauge.

For persistent issues, consult a certified oil burner technician. Do not attempt repairs beyond your technical expertise.

8. SPECIFICATIONS

Feature	Detail
Model Number	3006965
Manufacturer	Irnyso
Product Dimensions	0.02 x 0.03 x 0.01 inches
Item Weight	0.48 ounces
Compatibility	Riello Burner models 40 F3, BF3, F5, BF5, R35

9. WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or replacement parts for your Irnyso 3006965 Red Gauge Electrode Setting Gauge and Nozzle Adapter, please contact Irnyso directly through their official channels. Keep your purchase receipt as proof of purchase.

You can visit the Irnyso Store on Amazon for more product information and contact options.

