Pentair 471058

Pentair 471058 Ignitor Electrode Bracket Instruction Manual

For MiniMax 75/100 Pool and Spa Heaters

1. Introduction

This manual provides essential information regarding the Pentair 471058 Ignitor Electrode Bracket, a genuine replacement part designed specifically for Pentair MiniMax 75 and 100 series pool and spa heaters. This bracket plays a crucial role in securing the ignitor electrode, which is vital for the proper ignition sequence of your heater. Understanding its function and correct installation is key to maintaining the efficiency and safety of your pool or spa heating system.

2. Safety Information

WARNING: Always disconnect power to the heater before performing any service or maintenance. Failure to do so can result in serious injury or death from electrical shock.
CAUTION: Pool and spa heater repairs should only be performed by qualified service professionals. Improper installation or repair can lead to property damage, serious injury, or death. Always refer to the main heater's owner's manual for specific safety precautions and detailed service instructions.

- Ensure the heater is completely cool before beginning any work.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection.
- Keep all tools and work areas clean and free of debris.
- Do not bypass any safety devices or interlocks.

3. Product Overview

The Pentair 471058 Ignitor Electrode Bracket is a durable metal component engineered to precisely hold the ignitor electrode in its correct position within the combustion chamber of Pentair MiniMax 75 and 100 series heaters. Its design ensures proper alignment for reliable ignition.

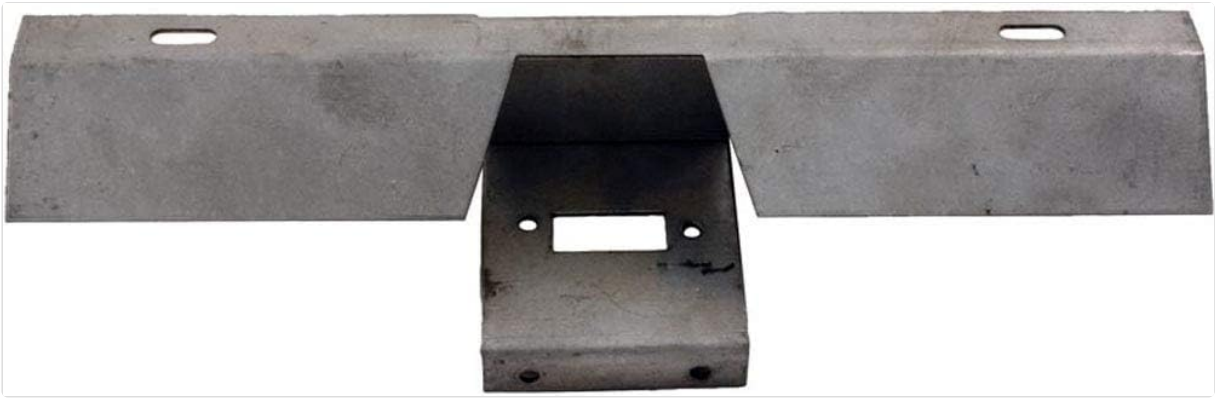


Image 1: Pentair 471058 Ignitor Electrode Bracket. A grey metallic bracket with a central rectangular opening and two elongated holes on the top flange, designed to hold an ignitor electrode in place within a pool or spa heater.

4. Setup and Installation

This bracket is a replacement part. Installation involves removing the old bracket and installing the new one. Always consult the specific service manual for your Pentair MiniMax 75 or 100 heater for detailed, step-by-step instructions and diagrams, as procedures may vary slightly by model year.

General Installation Steps (Consult Heater Manual for Specifics):

1. **Power Disconnection:** Turn off all electrical power to the heater at the circuit breaker.
2. **Gas Shut-off:** Turn off the gas supply to the heater.
3. **Access Panel Removal:** Carefully remove the heater's access panels to expose the combustion chamber and ignitor assembly.
4. **Ignitor Disconnection:** Disconnect any wiring connected to the ignitor electrode.
5. **Old Bracket Removal:** Carefully unmount and remove the old ignitor electrode bracket. Note its exact position and orientation.
6. **New Bracket Installation:** Position the new Pentair 471058 bracket in the exact location and orientation of the old one. Secure it using the appropriate fasteners.
7. **Ignitor Re-installation:** Re-install the ignitor electrode into the new bracket, ensuring it is seated correctly and securely.
8. **Wiring Reconnection:** Reconnect any wiring to the ignitor electrode. Ensure connections are tight and secure.
9. **Panel Replacement:** Replace all access panels.
10. **System Restart:** Restore gas and electrical power to the heater. Perform a test run to ensure proper ignition and operation.

If you are unsure about any step, it is highly recommended to contact a certified pool heater technician.

5. Operating Function

The ignitor electrode bracket itself does not have an 'operating' function in the traditional sense. Its purpose is purely mechanical: to hold the ignitor electrode in the precise position required for the heater's ignition system to function correctly. When the heater calls for heat, the control system sends power to the ignitor, which then heats up to ignite the gas. The bracket ensures the ignitor is positioned optimally for this process.

6. Maintenance

Regular inspection of the ignitor electrode bracket is recommended as part of your heater's annual maintenance. Look for signs of:

- **Corrosion:** Rust or other forms of corrosion can weaken the bracket and affect its ability to hold the ignitor securely.
- **Deformation:** Any bending or warping of the bracket can misalign the ignitor, leading to ignition issues.
- **Loose Fasteners:** Ensure all screws or bolts securing the bracket are tight.
- **Cracks or Breaks:** Inspect for any structural damage.

If any of these issues are observed, the bracket should be replaced to ensure reliable heater operation and safety.

7. Troubleshooting

Problems with the ignitor electrode bracket typically manifest as ignition failures or intermittent heating. If your heater is experiencing issues related to ignition, consider the following:

- **No Ignition/Delayed Ignition:** If the ignitor is not heating up or is heating slowly, check if the bracket is holding it firmly in place. A loose or misaligned bracket can prevent proper contact or positioning.
- **Repeated Ignitor Failures:** If ignitors are failing prematurely, ensure the bracket is not causing undue stress or improper alignment that could lead to damage.
- **Visible Damage:** If the bracket itself is visibly corroded, bent, or broken, it needs replacement.

Always verify that the ignitor electrode itself is functional and that all electrical connections are secure before concluding that the bracket is the sole cause of an issue. Consult a professional if troubleshooting does not resolve the problem.

8. Specifications

Attribute	Value
Product Dimensions	6 x 4 x 6 inches
Item Weight	10.6 ounces
Manufacturer	Pentair
ASIN	B004VTH2JS
Item Model Number	471058
Compatibility	Pentair MiniMax Pool and Spa Heater Models 75, 100

9. Warranty and Support

Specific warranty information for the Pentair 471058 Ignitor Electrode Bracket is not provided within this document. For details regarding warranty coverage, please refer to the original product documentation that came with your Pentair MiniMax heater or visit the official Pentair Store or their official website. For technical support or service, it is recommended to contact a qualified Pentair service professional or Pentair customer service directly.