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› Gxcdizx SEN01114 Flame Sensor Rod User Manual for American Standard Furnaces

Gxcdizx SEN01114

Gxcdizx SEN01114 Flame Sensor Rod User Manual

For American Standard Furnace Models

1. PRODUCT OVERVIEW

The Gxcdizx SEN01114 Flame Sensor Rod is a critical component designed for American Standard residential furnaces. Its primary function is to monitor the burner to confirm the presence of a flame. This is achieved by sending a direct current (DC) through the sensor via the flame itself, which is then received by the furnace's control board. This safety mechanism ensures that if no flame is detected, the gas valve closes, preventing uncombusted gas from accumulating in the home.



Figure 1: Two Gxcdizx SEN01114 Flame Sensor Rods, ready for installation.

FURNACE FLAME SENSOR

The furnace flame sensor is safely designed to detect the flame. When the sensor does not detect the flame gas valve is closed to prevent gas from flowing into the home.



Figure 2: The flame sensor's role in detecting a furnace flame to ensure safe operation.

2. SAFETY INFORMATION

Please read and understand all safety instructions before attempting installation or maintenance. Failure to follow these instructions could result in property damage, personal injury, or death.

- **Disconnect Power:** Always turn off the electrical power to the furnace at the main service panel before beginning any work.
- **Shut Off Gas Supply:** Ensure the gas supply to the furnace is completely shut off.
- **Qualified Personnel:** Installation and servicing should ideally be performed by a qualified HVAC technician. If you are not comfortable performing this task, consult a professional.
- **Handle with Care:** The ceramic insulator on the flame sensor is fragile. Handle the sensor carefully to avoid damage.
- **Personal Protective Equipment:** Wear appropriate safety gear, such as gloves and eye protection.

3. PACKAGE CONTENTS

Your package should contain the following items:

- 2 x Gxcdizx SEN01114 Flame Sensor Rods

4. SPECIFICATIONS

Part Numbers

This flame sensor is a direct replacement for the following part numbers:

- SEN01114
- SEN337
- SEN0337
- SEN441
- SEN0441
- SEN491
- SEN00491
- SEN1114
- PSE-T19
- B340888-2

Material Quality

The replacement part is manufactured from high-quality materials to ensure durability and a long service life, designed to prevent cracking and damage during installation and use.

Dimensions

for Trane/American Standard Furnace Sensor

100% new

FURNACE FLAME SENSOR

Made from high-quality materials, it is safe and reliable, with a long service life.

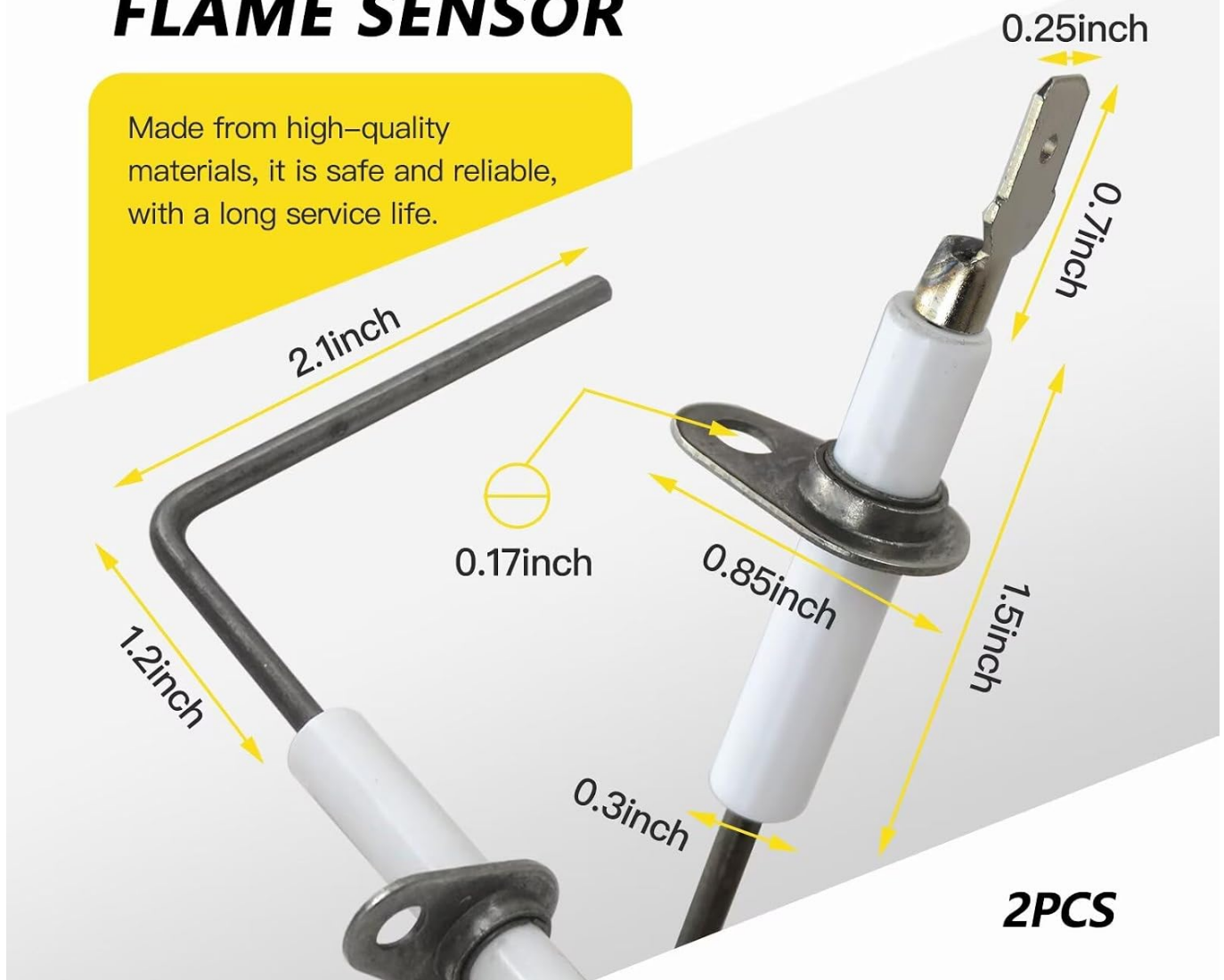


Figure 3: Detailed dimensions of the flame sensor rod for accurate fitment.

- Rod Length (exposed): Approximately 2.1 inches
- Ceramic Insulator Length: Approximately 1.5 inches
- Mounting Bracket Width: Approximately 0.85 inches
- Terminal Width: Approximately 0.25 inches

5. COMPATIBILITY

The Gxodizx SEN01114 Flame Sensor Rod is compatible with a wide range of American Standard residential furnace models. Please verify your furnace's model number against the list below to ensure proper fitment. This list is extensive but may not be exhaustive; always cross-reference with your furnace's documentation.

Compatible Models include:

- ADC1B040A9241AA, ADC1B040A9241AB, ADC1B040A9241AC, ADC1B040A9241AD
- ADC1B060A9361AA, ADC1B060A9361AB, ADC1B060A9361AC, ADC1B060A9361AD

- ADC1B080A9421AA, ADC1B080A9421AB, ADC1B080A9421AC, ADC1B080A9421AD, ADC1B080A9421AE
- ADC1C100A9481AA, ADC1C100A9481AB, ADC1C100A9481AC, ADC1C100A9481AD
- ADC1D120A9601AA, ADC1D120A9601AB, ADC1D120A9601AC, ADC1D120A9601AD
- ADD1A040A9241AA, ADD1A040A9241AB
- ADD1A060A9241AA, ADD1A060A9241AB, ADD1A060A9361AA, ADD1A060A9361AB
- ADD1B060A9361AA, ADD1B060A9361AB, ADD1B060A9H31AA, ADD1B060A9H31BA, ADD1B060A9H31BB
- ADD1B080A9361AA, ADD1B080A9361AB, ADD1B080A9451AA, ADD1B080A9451AB, ADD1B080A9H31AA, ADD1B080A9H31BA, ADD1B080A9H31BB
- ADD1B100A9451AA, ADD1B100A9451AB
- ADD1C100A9481AA, ADD1C100A9481AB, ADD1C100A9541AA, ADD1C100A9541AB, ADD1C100A9H51AA, ADD1C100A9H51BA, ADD1C100A9H51BB
- ADD1C120A9541AA, ADD1C120A9541AB
- ADD1D120A9601AA, ADD1D120A9601AB, ADD1D120A9H51AA, ADD1D120A9H51BA, ADD1D120A9H51BB
- ADD1D140A9601AA
- ADD2B060ACV32AA, ADD2B060ACV32AB
- ADD2B080ACV32AA, ADD2B080ACV32AB
- ADD2C100ACV52AA, ADD2C100ACV52AB
- ADD2D120ACV52AA, ADD2D120ACV52AB
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- ADE1B060A9361AA, ADE1B060A9361AB
- ADE1B080A9451AA, ADE1B080A9451AB
- ADE1B100A9451AA, ADE1B100A9451AB
- ADE1C100A9601AA, ADE1C100A9601AB
- ADE1D120A9601AA, ADE1D120A9601AB
- ADH1B040A9241AA
- ADH1B065A9421AA
- ADH1C085A9481AA
- ADH1D110A9601AA
- ADH2B060A9V3VAA, ADH2B060A9V3VAB, ADH2B060A9V3VAC, ADH2B060A9V3VAD
- ADH2B080A9V3VAA, ADH2B080A9V3VAB, ADH2B080A9V3VAC, ADH2B080A9V3VAD, ADH2B080A9V4VAC
- ADH2C100A9V4VAA, ADH2C100A9V4VAB, ADH2C100A9V4VAC, ADH2C100A9V4VAD
- ADH2D120A9V5VAA, ADH2D120A9V5VAB, ADH2D120A9V5VAC, ADH2D120A9V5VAD
- AUE1A060A9361AC
- AUE1B060A9361AA, AUE1B060A9361AB, AUE1B060A9361AC
- AUE1B080A9361AA, AUE1B080A9361AB, AUE1B080A9361AC, AUE1B080A9481AA, AUE1B080A9481AB, AUE1B080A9481AC
- AUE1B100A9361AA, AUE1B100A9361AB, AUE1B100A9361AC
- AUE1C100A9481AA, AUE1C100A9481AB

6. INSTALLATION INSTRUCTIONS (SETUP)

Replacing the flame sensor is a straightforward process, but it requires adherence to safety protocols.

Pre-Installation Checklist:

- Ensure the new flame sensor matches the specifications of the old one.
- Gather necessary tools (e.g., screwdriver, wrench).

Step-by-Step Installation:

1. **Power Off:** Turn off the power to the furnace at the circuit breaker or fuse box. Verify power is off using a voltage tester.
2. **Gas Off:** Close the manual gas shut-off valve to the furnace.
3. **Locate Sensor:** Identify the existing flame sensor. It is typically a single metal rod with a ceramic insulator, positioned in the path of the burner flames.
4. **Remove Old Sensor:** Disconnect the wire leading to the flame sensor. Using a wrench or screwdriver, carefully unbolt or unscrew the old sensor from its mounting bracket.
5. **Install New Sensor:** Insert the new Gxcdix SEN01114 Flame Sensor Rod into the mounting hole. Ensure it is oriented correctly, similar to the old sensor. Secure it with the bolt or screw.
6. **Connect Wiring:** Reconnect the wire to the terminal on the new flame sensor. Ensure the connection is secure.
7. **Restore Gas and Power:** Open the manual gas shut-off valve. Restore electrical power to the furnace.
8. **Test Operation:** Initiate a heating cycle on your thermostat. Observe the furnace's ignition sequence to ensure the burners ignite and remain lit. The furnace should operate normally.

FURNACE FLAME SENSOR

Simple installation

To turn off the stove, simply remove the old sensor, connect the new sensor to the circuit, and restart the power supply to complete the process.

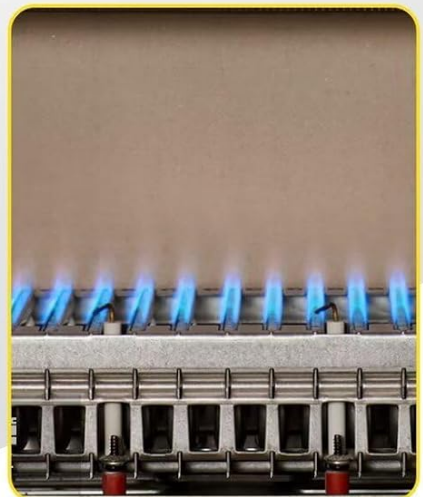


Figure 4: Visual guide to the simple installation process and furnace flame examples.

7. OPERATION

Once installed, the flame sensor operates automatically as part of the furnace's ignition and safety system. When the thermostat calls for heat, the furnace initiates its sequence:

- The inducer motor starts to clear the combustion chamber.
- The igniter (hot surface igniter or pilot light) activates.
- The gas valve opens, releasing gas to the burners.
- The gas ignites, creating a flame.
- The flame sensor detects this flame by conducting a small electrical current.
- If the flame is detected, the furnace continues its heating cycle. If no flame is detected within a specified time, the control board will shut off the gas supply and attempt to re-ignite (typically up to three times) before entering a lockout mode for safety.

8. MAINTENANCE

Regular maintenance of your flame sensor can help prevent furnace malfunctions and extend its lifespan.

- **Annual Inspection:** It is recommended to inspect the flame sensor annually, preferably before the heating season begins.
- **Cleaning:** Over time, carbon deposits can build up on the flame sensor rod, insulating it and preventing it from detecting the flame properly. If the sensor appears dirty, carefully remove it (following the safety steps in Section 6) and gently clean the ceramic and metal rod with fine-grit sandpaper or steel wool. Do not use harsh chemicals or abrasive cleaners that could damage the sensor.
- **Reinstallation:** After cleaning, reinstall the sensor, ensuring all connections are secure.

9. TROUBLESHOOTING

A malfunctioning flame sensor is a common cause of furnace issues. If your furnace is experiencing problems, consider the following:

Common Issues and Solutions:

- **Furnace Stalling Frequently:** If the furnace ignites but then shuts off shortly after, or attempts to ignite multiple times before locking out, the flame sensor may be dirty or faulty. Clean the sensor as described in the Maintenance section. If the problem persists, replacement may be necessary.
- **Burners Not Staying Lit:** Similar to stalling, if the burners ignite but immediately extinguish, the flame sensor is likely not detecting the flame. Inspect for carbon buildup or damage.
- **No Ignition (after initial attempts):** While many factors can cause this, a completely failed flame sensor will prevent the furnace from confirming ignition, leading to a lockout.



SEN01114 Flame Sensor

Made of advanced materials, sturdy enough to prevent cracking and damage during installation and use.

FURNACE FLAME SENSOR

Solve the following

- ✓ Resolve the issue of the furnace stalling frequently
- ✓ Quickly turn off the engine after starting
- ✓ Staying on once it fires up



2
pcs

Figure 5: The Gxcdizx SEN01114 Flame Sensor Rod helps resolve common furnace ignition and stalling issues.

If troubleshooting steps do not resolve the issue, it is recommended to consult a qualified HVAC technician.

10. WARRANTY AND SUPPORT

For information regarding warranty coverage or technical support for your Gxcdizx SEN01114 Flame Sensor Rod, please refer to the product packaging or contact the manufacturer directly. Keep your purchase receipt as proof of purchase.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question