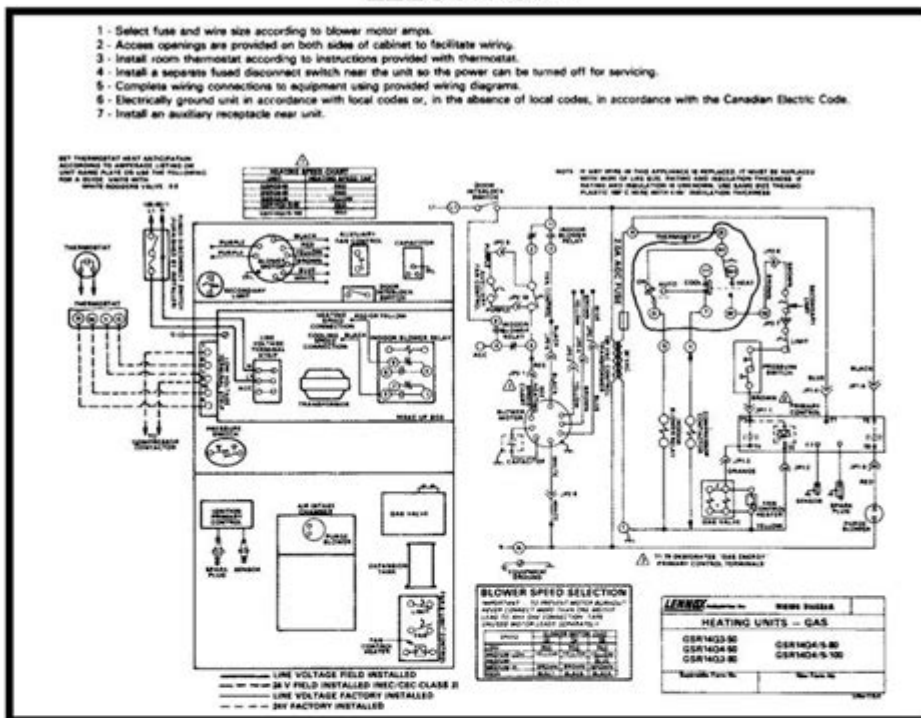


# Armstrong Oil Furnace Service Manual

## ELECTRICAL



## START-UP/ADJUSTMENTS

### START-UP

This unit is equipped with a direct spark ignition system with flame rectification. Once combustion has started, the purge blower and spark ignitor are turned off. To place furnace in operation:

- 1 - With thermostat set below room temperature make sure gas valve knob is in off position and wait 5 minutes.
- 2 - Turn manual knob of gas valve counterclockwise to ON position. Turn power on and set thermostat above room temperature. Unit will go into prepurge for approximately 30 seconds and then ignite.
- 3 - If the unit does not light on the first attempt, it will attempt four more ignitions before locking out.
- 4 - If lockout occurs, turn thermostat off and then back on.

### To shut off furnace:

- 1 - Set thermostat to lowest temperature and turn power supply to furnace off.
- 2 - Turn manual knob of gas valve off.

### FAILURE TO OPERATE

If unit fails to operate, check the following:

- 1 - Is thermostat calling for heat?
- 2 - Is main disconnect switch closed?
- 3 - Is there a blown fuse?
- 4 - Is filter dirty or plugged? Dirty or plugged filters will cause unit to go off on limit control.
- 5 - Is gas turned on at meter?
- 6 - Is manual main shut-off valve open?
- 7 - Is internal manual shut-off open?
- 8 - Are intake and exhaust pipes clogged?
- 9 - Is primary control locked out? (Turn thermostat off and then back on.)
- 10 - Is unit locked out on secondary limit? (Secondary limit is manually reset.)

## GSR14 SERIES UNITS

**LENNOX** Industries Inc.

## Armstrong Oil Furnace Service Manual

When it comes to maintaining an effective heating system in your home, understanding the operation and maintenance of your Armstrong oil furnace is crucial. The Armstrong oil furnace service manual serves as an essential guide for homeowners and technicians alike, providing detailed information on installation, operation, maintenance, troubleshooting, and repair procedures. In this article, we will delve into the key components of the service manual, the importance of regular maintenance, common issues, and their solutions, and tips for ensuring the longevity of your heating system.

# Understanding Your Armstrong Oil Furnace

Armstrong oil furnaces are known for their durability and efficiency. These furnaces operate by burning oil to create heat, which is then distributed throughout the home via a system of ducts. The operation of an oil furnace involves several key components:

## Key Components of an Armstrong Oil Furnace

1. **Burner:** The burner is responsible for mixing the oil with air and igniting it to produce heat.
2. **Blower:** The blower circulates warm air through the ductwork and into the living spaces of the home.
3. **Heat Exchanger:** This component transfers the heat generated by the burner to the air that is blown into the home.
4. **Oil Tank:** The oil tank stores the fuel oil that powers the furnace.
5. **Thermostat:** The thermostat regulates the temperature in your home by controlling when the furnace turns on and off.

## The Importance of Regular Maintenance

Regular maintenance is crucial for the efficient and safe operation of your Armstrong oil furnace. Neglecting maintenance can lead to various problems, including decreased efficiency, higher energy bills, and potential safety hazards. Here are some key reasons to prioritize regular maintenance:

## Benefits of Regular Maintenance

- **Improved Efficiency:** Regular cleaning and tune-ups can help your furnace operate at peak efficiency, reducing energy consumption.
- **Extended Lifespan:** Routine maintenance can extend the lifespan of your furnace, saving you money on premature replacements.
- **Improved Safety:** Regular checks can identify and address potential safety issues, such as carbon monoxide leaks.
- **Consistent Comfort:** A well-maintained furnace will provide consistent heating, keeping your home comfortable during cold months.

## Maintenance Tasks Outlined in the Service Manual

The Armstrong oil furnace service manual outlines several essential maintenance tasks that homeowners should perform regularly or have performed by a qualified technician. Key tasks include:

## **1. Annual Inspections**

- Schedule an annual inspection with a certified technician.
- Inspect the burner, heat exchanger, and ductwork for cleanliness and functionality.

## **2. Clean or Replace Filters**

- Check the air filter monthly during the heating season.
- Clean or replace the filter as necessary to ensure proper airflow.

## **3. Oil Tank Maintenance**

- Ensure the oil tank is full and in good condition.
- Inspect for leaks or signs of corrosion.

## **4. Check the Burner Assembly**

- Clean the burner assembly to remove soot and debris.
- Check for proper ignition and flame characteristics.

## **5. Inspect the Blower Motor**

- Clean the blower motor and ensure it operates smoothly.
- Lubricate moving parts if applicable.

## **6. Test Safety Controls**

- Regularly test safety controls, including the emergency shut-off and limit switches.
- Ensure they function correctly to prevent unsafe operation.

## **Troubleshooting Common Issues**

Despite regular maintenance, you may encounter issues with your Armstrong oil furnace. The service manual provides guidance on troubleshooting common problems. Here are some typical issues and their potential solutions:

## **1. No Heat**

- Check the thermostat: Ensure it is set to the desired temperature and is functioning properly.
- Inspect the oil supply: Verify that the oil tank is not empty and that there are no blockages in the fuel line.
- Examine the burner: Make sure the burner is clean and the ignition is functioning.

## **2. Strange Noises**

- Identify the source: Listen for unusual sounds such as banging, whistling, or grinding.
- Check for loose parts: Tighten any loose screws or panels that may be vibrating.
- Inspect the blower motor: A malfunctioning blower motor may produce unusual noises.

## **3. Frequent Cycling**

- Review thermostat settings: Ensure the thermostat is not set too high, causing the furnace to cycle excessively.
- Inspect the air filter: A clogged filter can restrict airflow, leading to frequent cycling.
- Check for duct obstructions: Ensure vents and ducts are not blocked or closed.

## **Safety Considerations**

Safety is paramount when maintaining and operating an oil furnace. The Armstrong oil furnace service manual emphasizes several safety precautions to consider:

### **1. Carbon Monoxide Detection**

- Install carbon monoxide detectors in your home, especially near sleeping areas.
- Test detectors monthly and replace batteries as needed.

### **2. Proper Ventilation**

- Ensure that the furnace area is well-ventilated to prevent the buildup of harmful gases.
- Regularly inspect vent pipes for obstructions and leaks.

### **3. Use Professional Help When Needed**

- If you encounter issues beyond routine maintenance, consult a qualified technician.
- Avoid attempting complex repairs unless you are trained and experienced.

# Conclusion

The Armstrong oil furnace service manual is an invaluable resource for maintaining an efficient and safe heating system in your home. By understanding the key components, performing regular maintenance, troubleshooting common issues, and adhering to safety precautions, homeowners can ensure their oil furnace operates effectively throughout the heating season. Regular attention to your furnace not only enhances its performance but also contributes to the overall safety and comfort of your living environment. For specific instructions and detailed guidance, always refer to the service manual that accompanies your particular Armstrong oil furnace model.

## Frequently Asked Questions

### **What is the purpose of the Armstrong oil furnace service manual?**

The Armstrong oil furnace service manual provides comprehensive guidelines for installation, operation, maintenance, and troubleshooting of Armstrong oil furnaces.

### **Where can I find the latest Armstrong oil furnace service manual?**

The latest Armstrong oil furnace service manual can typically be found on the official Armstrong website or through authorized dealers and HVAC service providers.

### **What are common troubleshooting tips found in the Armstrong oil furnace service manual?**

Common troubleshooting tips include checking the oil supply, ensuring the thermostat is functioning correctly, and inspecting the ignition system for proper operation.

### **Does the Armstrong oil furnace service manual include safety precautions?**

Yes, the Armstrong oil furnace service manual includes important safety precautions to follow during installation, maintenance, and repair to prevent accidents.

### **How often should I refer to the Armstrong oil furnace service manual?**

It is recommended to refer to the Armstrong oil furnace service manual during annual maintenance checks and whenever issues arise with the furnace.

### **Can I perform repairs on my Armstrong oil furnace using the**

## **service manual?**

Yes, the service manual provides detailed instructions for various repairs, but it is advisable to consult a professional if you are unsure about any procedures.

## **What maintenance tasks does the Armstrong oil furnace service manual recommend?**

The manual recommends regular tasks such as changing the oil filter, cleaning the burners, and checking the flue pipes for blockages.

## **Is there a troubleshooting section in the Armstrong oil furnace service manual?**

Yes, the troubleshooting section covers common issues, diagnostic codes, and step-by-step procedures to resolve problems.

## **What should I do if I can't find my Armstrong oil furnace service manual?**

If you cannot find your service manual, you can download a PDF version from the Armstrong website or contact customer support for assistance.

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