

LEFOO LF10-1H-1-NPT1/4-95-125

LEFOO LF10-1H-1-NPT1/4-95-125 Air Compressor Pressure Switch Control Valve User Manual

Model: LF10-1H-1-NPT1/4-95-125

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your LEFOO LF10-1H-1-NPT1/4-95-125 Air Compressor Pressure Switch Control Valve. Please read this manual thoroughly before use and retain it for future reference.

Product Features:

- Brand new LEFOO 95-125 PSI air compressor pressure switch
- Maximum Pressure: 150 PSI
- Minimum ON Pressure: 35 PSI
- Differential: 30-40 PSI
- 1/4 inch Compression Unloader Valve Connection
- 1/4 inch Female NPT Tank Connection



Figure 1: LEFOO LF10-1H-1-NPT1/4-95-125 Air Compressor Pressure Switch Control Valve.

2. SAFETY INSTRUCTIONS

WARNING: Failure to follow these safety instructions may result in serious injury, property damage, or death.

- Always disconnect power to the air compressor before installing, servicing, or performing any maintenance on the pressure switch.
- Ensure the air tank is completely depressurized before working on the system.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- All electrical wiring must be performed by a qualified electrician and comply with local electrical codes.
- Ensure all connections are properly sealed to prevent air leaks. Use thread sealant tape on NPT connections.
- Do not exceed the maximum rated pressure of 150 PSI for this device.
- Keep children and unauthorized personnel away from the air compressor during operation and maintenance.

3. PRODUCT SPECIFICATIONS

Specification	Value
Product Dimensions	3.94 x 3.54 x 3.94 inches
Item Weight	13.7 ounces
Manufacturer	Lefoo
Model Number	LF10-1H-1-NPT1/4-95-125
Brand	LEFOO
Cut-in Pressure Range	95 PSI
Cut-out Pressure Range	125 PSI
Maximum Pressure	150 PSI
Minimum ON Pressure	35 PSI
Differential	30-40 PSI
Unloader Valve Connection	¼ inch Compression
Tank Connection	¼ inch Female NPT

4. INSTALLATION GUIDE

Follow these steps carefully to install your LEFOO pressure switch. Refer to the provided video for a visual guide.

4.1. Pre-Installation Checks

1. **Disconnect Power:** Ensure the air compressor is unplugged from its power source.
2. **Depressurize Tank:** Fully drain all air pressure from the compressor tank.
3. **Gather Tools:** You will need a screwdriver, wrench, thread sealant tape, and appropriate PPE.

4.2. Removing the Old Switch (if applicable)

1. Carefully disconnect all electrical wiring from the old pressure switch, noting their positions for re-connection. It is recommended to take a photo.
2. Unscrew the old pressure switch from the air tank and disconnect any attached unloader lines or pressure gauges.

4.3. Installing the New Pressure Switch

1. **Prepare Connections:** Apply thread sealant tape to the ¼ inch NPT male threads of the air tank connection point.
2. **Mount Switch:** Carefully thread the new LEFOO pressure switch onto the air tank connection. Tighten securely with a wrench, ensuring a snug fit without overtightening.
3. **Connect Unloader Valve:** Attach the ¼ inch compression unloader valve line to the designated port on the pressure switch. Ensure this connection is also secure.
4. **Electrical Wiring:** Open the lid of the pressure switch to access the electrical terminals. Connect the power wires according to the wiring diagram provided on the switch or your compressor's manual. Ensure all connections are tight and secure.
5. **Install Pressure Gauge (if applicable):** If your setup includes a separate pressure gauge, install it into the appropriate port on the pressure switch or manifold.
6. **Install Regulator (if applicable):** If your setup includes a regulator, connect it to the appropriate port and tighten securely.
7. **Install Connector (if applicable):** Install any quick-connect fittings or other connectors required for your air tools.
8. **Close Lid:** Once all connections are made and verified, securely close the lid of the pressure switch.



Figure 2: Side view showing the unloader valve connection.



Figure 3: Top view showing the main tank connection.



Figure 4: Internal wiring terminals of the pressure switch.

4.4. Installation Video Guide

Your browser does not support the video tag.

Video 1: Detailed guide on how to install an air compressor pressure switch. This video demonstrates the steps for opening the lid, installing the pressure switch, connecting the tracheal line, installing a pressure gauge, connecting and tightening the pressure relief valve, connecting wires, and installing a regulator and connector.

5. OPERATION

The LEFOO LF10-1H-1-NPT1/4-95-125 pressure switch is designed for automatic control of your air compressor's start and stop cycles based on tank pressure.

1. **Power On:** After successful installation, plug in your air compressor. The pressure switch will automatically engage the compressor when the tank pressure drops to approximately 95 PSI.
2. **Automatic Shut-off:** The compressor will run until the tank pressure reaches approximately 125 PSI, at which point the pressure switch will automatically shut off the compressor.
3. **Manual Operation:** The switch typically includes a manual lever (often red) to manually turn the compressor ON or OFF, overriding the automatic function. Refer to your compressor's specific instructions for manual operation.
4. **Pressure Adjustment:** Some pressure switches allow for adjustment of the cut-in and cut-out pressures. If your model supports this, consult the internal diagram or your compressor's manual for adjustment procedures. *Note: This specific model is rated for 95-125 PSI.*

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your pressure switch and air compressor system.

- **Inspect Connections:** Periodically check all air and electrical connections for tightness and signs of wear or corrosion. Tighten as necessary.
- **Check for Leaks:** Listen for air leaks around the pressure switch and connections. Apply a soapy water solution to connections to identify leaks (bubbles will form).
- **Clean:** Keep the exterior of the pressure switch clean and free from dust, dirt, and debris.
- **Unloader Valve Check:** Ensure the unloader valve operates freely and is not obstructed. A malfunctioning unloader valve can cause the compressor motor to struggle on startup.

- **Electrical Inspection:** With power disconnected, inspect electrical wiring for fraying, damage, or loose terminals.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your pressure switch.

Problem	Possible Cause	Solution
Compressor does not start.	No power, faulty wiring, manual switch in OFF position, low tank pressure not met.	Check power supply, verify wiring connections, ensure manual switch is ON, check tank pressure.
Compressor does not shut off.	Faulty pressure switch, air leak, manual switch in ON position (overriding auto-off).	Inspect for air leaks, check pressure switch function, ensure manual switch is in AUTO position.
Compressor cycles too frequently.	Air leaks in the system, small pressure differential setting.	Check for air leaks in tank, hoses, and fittings. If adjustable, verify pressure differential setting.
Air leaks around the switch.	Loose connections, insufficient thread sealant.	Tighten connections, reapply thread sealant tape if necessary.

If you are unable to resolve an issue, consult a qualified technician or contact LEFOO customer support.

8. WARRANTY INFORMATION

For specific warranty details regarding your LEFOO LF10-1H-1-NPT1/4-95-125 Air Compressor Pressure Switch Control Valve, please refer to the warranty card included with your product or contact the seller directly. Warranty terms typically cover manufacturing defects for a specified period from the date of purchase.

Keep your proof of purchase (receipt or invoice) as it will be required for any warranty claims.

9. CUSTOMER SUPPORT

If you have any questions, require technical assistance, or need to report an issue with your LEFOO pressure switch, please contact your retailer or the manufacturer directly.

For general inquiries, you may visit the [LEFOO Store on Amazon](#).

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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