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Ingersoll Rand 45463676

Ingersoll Rand 45463676 OEM Engine Controller Kit Instruction Manual

For 2475 Compressor

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1. INTRODUCTION

This instruction manual provides essential information for the proper installation, operation, and maintenance of the Ingersoll Rand 45463676 OEM Engine Controller Kit. This kit is specifically designed for use with the Ingersoll Rand 2475 Compressor to ensure optimal performance and longevity. Please read this manual thoroughly before attempting any installation or operation.

2. SAFETY INFORMATION

Always prioritize safety when working with machinery and electrical components. Failure to follow safety instructions can result in serious injury or equipment damage.

- **Disconnect Power:** Ensure the compressor's power source is completely disconnected and locked out before beginning any installation, maintenance, or repair work.
- **Read Compressor Manual:** Refer to the main Ingersoll Rand 2475 Compressor manual for specific safety guidelines and procedures related to the compressor unit.
- **Qualified Personnel:** Installation and service should only be performed by qualified and trained personnel.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses, gloves, and hearing protection, as required by the task.
- **Original Equipment Manufacturer (OEM) Parts:** Use only genuine Ingersoll Rand OEM replacement parts to ensure proper fit, function, and safety. Non-OEM parts may compromise performance and safety.
- **Ventilation:** Ensure adequate ventilation when working in enclosed spaces, especially when dealing with engine components.

3. PRODUCT OVERVIEW

The Ingersoll Rand 45463676 OEM Engine Controller Kit is a critical component designed to manage and regulate the engine speed of your 2475 Compressor. This kit is an Original Equipment Manufacturer (OEM) part, guaranteeing compatibility and performance standards set by Ingersoll Rand.



Figure 3.1: Main unit of the Ingersoll Rand 45463676 OEM Engine Controller Kit. This image displays the primary control module, which is central to managing the compressor engine's functions.

4. COMPONENTS INCLUDED

The 45463676 Engine Controller Kit typically includes the following components:

- Throttle slowdown control (1)
- Street elbow (1)
- Instruction sheet (1)

Genuine OEM Replacement Parts

STOP!
USING IMITATION PARTS

DON'T BE DECEIVED

Replacement parts might look the same, but don't always work the same.

Choose genuine OEM parts to guarantee form, fit and function.



Figure 4.1: Included components of the 45463676 Engine Controller Kit. This image shows the throttle slowdown control, street elbow, and other parts that comprise the kit.

5. SETUP AND INSTALLATION

This section provides general guidance for the installation of the engine controller kit. For detailed, model-specific instructions, always refer to the instruction sheet included with your kit and the comprehensive service manual for your Ingersoll Rand 2475 Compressor.

1. Preparation:

- Ensure the compressor is turned off, depressurized, and disconnected from all power sources.
- Gather all necessary tools, which may include wrenches, screwdrivers, and thread sealant.
- Review the included instruction sheet for any specific warnings or steps.

2. **Locate Existing Controller:** Identify the current engine controller or the designated installation area on your 2475 Compressor.

3. **Remove Old Components (if applicable):** If replacing an existing controller, carefully disconnect and remove the old throttle slowdown control and any associated fittings. Note the orientation and connections for reference.
4. **Install New Throttle Slowdown Control:**
 - Attach the new throttle slowdown control to the engine or manifold as specified in the compressor's service manual.
 - Use the provided street elbow if necessary to achieve the correct angle and connection.
 - Apply thread sealant to pipe threads as recommended to ensure an airtight seal.
 - Tighten all connections securely but avoid over-tightening, which can damage threads.
5. **Connect Wiring/Hoses:** Reconnect any electrical wiring or pneumatic hoses to the new controller according to the compressor's wiring diagram or the kit's instructions. Ensure all connections are firm and correctly routed.
6. **Final Checks:**
 - Visually inspect all connections for tightness and proper alignment.
 - Ensure no tools or loose parts are left near moving components.
 - Confirm that all safety guards are in place.

Note: This kit is designed for the Ingersoll Rand 2475F13GH Portable Gas Compressor. Compatibility with other models should be verified with Ingersoll Rand directly.

6. OPERATING INSTRUCTIONS

Once the Ingersoll Rand 45463676 Engine Controller Kit is correctly installed, its operation is integrated with the overall function of your 2475 Compressor. The controller's primary role is to manage the engine's throttle, typically slowing it down when the compressor reaches its set pressure and speeding it up when more air is needed.

- **Initial Startup:** After installation, carefully follow the startup procedure outlined in your main 2475 Compressor manual. Observe the engine's behavior to ensure the new controller is functioning correctly.
- **Automatic Operation:** The engine controller operates automatically. It senses the system pressure and adjusts the engine's RPM to maintain the desired air pressure efficiently.
- **Monitoring:** During operation, monitor the compressor's pressure gauges and engine speed. The engine should slow down when the tank is full and speed up when air is being consumed.
- **Abnormal Behavior:** If the engine does not slow down, or if it cycles rapidly, refer to the troubleshooting section or consult a qualified technician.

7. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your engine controller and compressor system. Always perform maintenance with the compressor powered off and depressurized.

- **Visual Inspection:** Periodically inspect the controller and its connections for any signs of wear, corrosion, or damage. Check hoses for cracks and electrical connections for looseness.
- **Cleanliness:** Keep the controller free from dirt, dust, and debris. A clean component operates more efficiently and reliably.
- **Connection Integrity:** Ensure all pneumatic and electrical connections remain tight. Loose connections can lead to intermittent operation or failure.
- **Consult Compressor Manual:** Adhere to the maintenance schedule and procedures outlined in your Ingersoll Rand 2475 Compressor's main manual, as the engine controller is an integral part of that system.

8. TROUBLESHOOTING

If you encounter issues with your engine controller or compressor operation, consult the following basic troubleshooting steps. For complex problems, contact a qualified service technician.

Problem	Possible Cause	Solution
Engine does not slow down when pressure is reached.	Faulty throttle slowdown control. Blocked pneumatic line to controller. Incorrect pressure switch setting.	Inspect controller for damage; replace if necessary. Check and clear pneumatic lines. Verify pressure switch settings against compressor manual.
Engine cycles rapidly (speeds up and slows down frequently).	Air leak in the system. Pressure switch malfunction. Controller sensitivity issue.	Check all connections and hoses for leaks. Test or replace pressure switch. Consult compressor manual for controller adjustment or contact service.
Engine does not speed up when air is demanded.	Controller malfunction. Blocked pneumatic line. Engine issue (not related to controller).	Inspect controller and connections. Check pneumatic lines for obstructions. Refer to the compressor engine manual for engine-specific troubleshooting.

9. SPECIFICATIONS

Key specifications for the Ingersoll Rand 45463676 OEM Engine Controller Kit:

- **Brand:** Ingersoll Rand
- **Model Number:** 45463676
- **Recommended Uses:** Engine Control for 2475 Compressor
- **Power Source:** Air Powered (operates pneumatically)
- **Item Weight:** 0.85 Pounds (approximately)
- **Material Type:** Metal
- **Voltage:** 120 Volts (This specification likely refers to the compressor's electrical system, as the controller itself is air-powered.)
- **GTIN/UPC:** 663023078403

10. WARRANTY AND SUPPORT

For warranty information regarding the Ingersoll Rand 45463676 OEM Engine Controller Kit, please contact your vendor or Ingersoll Rand customer support directly. Warranty terms and conditions may vary.

For technical support, parts inquiries, or service assistance, please refer to the contact information provided in your main Ingersoll Rand 2475 Compressor manual or visit the official Ingersoll Rand website.

