

## 2235-TK1

# Ingersoll Rand 2235TiMAX Series Air Impact Wrench Tune-Up Kit (Part # 2235-TK1) Instruction Manual

For Models 2235TiMAX and 2235QTiMAX

## 1. INTRODUCTION

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This instruction manual provides essential information for the proper installation, operation, and maintenance of the 2235-TK1 Tune-Up Kit. This kit is designed to restore optimal performance to Ingersoll Rand 2235TiMAX and 2235QTiMAX series air impact wrenches by replacing worn internal components. Adhering to these guidelines will help ensure the longevity and efficiency of your air tool.

## 2. PRODUCT OVERVIEW: KIT COMPONENTS

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The 2235-TK1 Tune-Up Kit includes various components necessary for a comprehensive overhaul of your compatible Ingersoll Rand air impact wrench. Familiarize yourself with the parts before beginning the installation process.



**Image 1:** Contents of the 2235-TK1 Tune-Up Kit. This image displays all included components laid out on a white surface. Visible parts include multiple wooden/composite vanes, two sealed bearings, various black and one blue O-rings, two C-clips (retaining rings), a coiled spring, a light blue plastic throttle valve component, a large red gasket/seal, a brass-colored washer, a small clear washer, a small black O-ring, and a small black plastic piece with a metal pin.

The kit typically contains the following items:

- **Rotor Vanes:** Multiple wooden or composite vanes for the air motor.
- **Bearings:** Two sealed ball bearings for the motor shaft.
- **O-Rings and Seals:** A selection of O-rings and seals of various sizes and materials (e.g., black rubber, blue rubber, clear plastic) for sealing critical internal components and preventing air leaks.

- **Retaining Rings/C-Clips:** Metal clips used to secure components in place.
- **Spring:** A coiled spring, typically for the trigger or valve mechanism.
- **Throttle Valve Component:** A plastic part, often light blue, integral to the tool's throttle mechanism.
- **Gasket/Seal:** A larger, often red, gasket for the motor housing.
- **Washers/Spacers:** Various washers or spacers, including a brass-colored ring, for proper component alignment.

### 3. SETUP AND INSTALLATION

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Installation of this tune-up kit requires mechanical aptitude and familiarity with air tool disassembly and reassembly. Refer to your specific Ingersoll Rand 2235TiMAX or 2235QTiMAX service manual or exploded diagram for detailed, model-specific instructions. The following steps are general guidelines.

#### Safety Precautions:

- **Disconnect Air Supply:** Always disconnect the air tool from its air supply before performing any maintenance or disassembly.
- **Wear Eye Protection:** Use appropriate eye protection to prevent injury from flying debris or spring-loaded parts.
- **Work in a Clean Area:** Ensure your workspace is clean and well-lit to prevent contamination of internal components and to avoid losing small parts.

#### Installation Steps:

1. **Disassembly:** Carefully disassemble your air impact wrench according to the manufacturer's service manual. Pay close attention to the order of components and the location of all seals, O-rings, and fasteners.
2. **Component Removal:** Remove all old, worn, or damaged components that are being replaced by the tune-up kit. This typically includes rotor vanes, motor bearings, and various O-rings and seals.
3. **Cleaning:** Thoroughly clean all internal cavities and components that are not being replaced. Use a suitable solvent and compressed air to remove old grease, dirt, and debris. Ensure all air passages are clear.
4. **New Component Installation:** Install the new components from the 2235-TK1 kit.
  - **Vanes:** Insert the new rotor vanes into the rotor slots. Ensure they move freely.
  - **Bearings:** Press the new bearings onto the motor shaft or into their respective housings. Use appropriate tools to avoid damaging the bearings.
  - **O-Rings and Seals:** Replace all specified O-rings and seals. Apply a thin layer of air tool oil or appropriate grease to O-rings before installation to aid seating and prevent pinching.
  - **Other Parts:** Install the spring, throttle valve component, gaskets, and retaining rings as per the tool's exploded diagram.
5. **Lubrication:** Apply a few drops of high-quality air tool oil directly into the air inlet and to the internal motor components before reassembly. This lubricates the vanes and bearings.
6. **Reassembly:** Carefully reassemble the air impact wrench, ensuring all fasteners are tightened to the manufacturer's specifications. Do not overtighten.
7. **Testing:** Connect the tool to an air supply and test its operation. Check for proper function, power, and any air leaks. Apply a few more drops of air tool oil through the air inlet during initial operation.

### 4. OPERATING INSTRUCTIONS (POST-MAINTENANCE)

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After installing the tune-up kit, operate your air impact wrench according to its original manufacturer's instructions. Ensure the air supply pressure is within the recommended range for your tool. Regular lubrication with air tool oil is

crucial for maintaining performance and extending the life of the newly installed components.

## 5. MAINTENANCE

Proper maintenance after installing the tune-up kit will maximize the lifespan of your air tool and its new components.

- **Daily Lubrication:** Add 5-10 drops of high-quality air tool oil into the air inlet before each use or at the beginning of each shift.
- **Air Filter:** Ensure your air compressor system has a clean, properly functioning air filter to prevent contaminants from entering the tool.
- **Moisture Trap:** Use a moisture trap in your air line to prevent water from entering the tool, which can cause corrosion and damage to internal parts.
- **Storage:** Store the air tool in a clean, dry environment when not in use.

## 6. TROUBLESHOOTING

If you encounter issues after installing the tune-up kit, consult the table below for common problems and potential solutions.

Symptom	Possible Cause	Solution
Loss of Power / Reduced Torque	Worn or improperly seated vanes; insufficient lubrication; air leaks; incorrect air pressure.	Check vane installation and condition; ensure adequate air tool oil; inspect O-rings and seals for proper seating; verify air supply pressure.
Air Leaks	Damaged or improperly seated O-rings/seals; loose housing fasteners.	Re-examine all O-rings and seals for cuts or improper seating; ensure all housing screws are tightened correctly.
Excessive Vibration / Noise	Damaged or improperly installed bearings; unbalanced rotor; foreign object inside tool.	Inspect bearings for smooth rotation; ensure rotor and vanes are correctly assembled; check for any debris inside the tool.

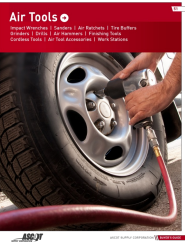



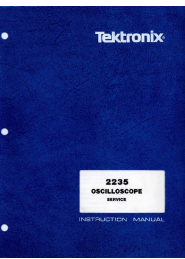
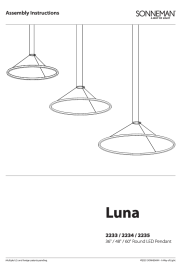
## 7. SPECIFICATIONS

- **Kit Model:** 2235-TK1
- **Compatibility:** Ingersoll Rand 2235TiMAX Series (including 2235TiMAX and 2235QTiMAX air impact wrenches)
- **Manufacturer (Kit):** Gator/Microcut (as per product specifications)
- **Components:** Includes vanes, bearings, O-rings, seals, springs, and other internal parts for motor and trigger assembly.

## 8. WARRANTY AND SUPPORT

This 2235-TK1 Tune-Up Kit is a replacement part for Ingersoll Rand tools. Any warranty coverage for this kit is provided by the kit's manufacturer or seller, not by Ingersoll Rand. For specific warranty details or technical support regarding the kit components, please contact the vendor from whom the kit was purchased. For issues related to the original Ingersoll Rand tool, refer to its manufacturer's warranty and support information.

Related Documents - 2235-TK1

	<p><a href="#">Comprehensive Buyer's Guide to Air Tools: Impact Wrenches, Sanders, Grinders, and More</a></p> <p>Explore a wide range of professional air tools, including impact wrenches, sanders, grinders, drills, and accessories from leading brands like Chicago Pneumatic, Ingersoll Rand, and RPG. Find detailed specifications, product descriptions, and selection guides.</p>
	<p><a href="#">KRIOS TK1 Professional Gaming Headset User Manual</a></p> <p>This document provides a comprehensive user manual for the KRIOS TK1 Professional Gaming Headset, detailing its features, specifications, operation, and safety information. It covers connectivity options including Bluetooth v5.3, 2.4G wireless, and wired 3.5mm audio, along with RGB lighting and immersive sound capabilities.</p>
	<p><a href="#">Chromalox Thermostat Kits LUH-TK1 and LUH-TK2 Installation Guide</a></p> <p>Installation, operation, and renewal parts identification for Chromalox Thermostat Kits LUH-TK1 (SPST) and LUH-TK2 (DPST) for field installation in LUH-02 through LUH-45 heaters.</p>
	<p><a href="#">GDW Tow Bar Installation Manual for Opel Crossland X (2017-)</a></p> <p>Comprehensive installation guide for GDW tow bars on the Opel Crossland X (2017-). Includes fitting instructions, important advice, guarantee information, and detailed step-by-step procedures for mounting the tow bar.</p>
	<p><a href="#">Tektronix 2235 Oscilloscope Service Manual</a></p> <p>Comprehensive service manual for the Tektronix 2235 Oscilloscope. Includes detailed specifications, operating instructions, theory of operation, performance checks, adjustment procedures, maintenance, troubleshooting, and parts lists for qualified service personnel.</p>
	<p><a href="#">Sonneman Luna Round LED Pendant Assembly Instructions</a></p> <p>Detailed assembly instructions and important safety warnings for the Sonneman Luna Round LED Pendant series (models 2233, 2234, 2235), covering installation, wiring, and care.</p>