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Ingersoll Rand 2135K303

Ingersoll Rand 2135-K303 Inlet Kit Instruction Manual

For 2115TIMAX Impact Wrench

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Ingersoll Rand 2135-K303 Inlet Kit. This kit is specifically designed as a replacement part for the Ingersoll Rand 2115TIMAX Impact Wrench, ensuring optimal performance and longevity of your tool. Please read these instructions carefully before proceeding with any installation or maintenance.

PRODUCT OVERVIEW

The 2135-K303 Inlet Kit is a comprehensive set of components crucial for the air valve assembly of your impact wrench. It addresses common wear issues that can lead to air leaks and trigger malfunctions.

Kit Components:

- **28A Washer:** A flat, circular component used to distribute the load of a threaded fastener.
- **28B O-ring Seal:** A circular cross-section ring, designed to be seated in a groove and compressed during assembly to create a seal between two or more parts.
- **28C Throttle Spring:** A coiled spring that provides tension for the throttle valve mechanism.
- **28D Throttle Valve:** The primary component that controls the flow of air into the impact wrench when the trigger is activated.
- **28E Valve Seat:** The surface against which the throttle valve rests when closed, ensuring a tight seal.
- **28F Seat Support:** Provides structural support for the valve seat.
- **28G Retainer:** A component used to hold other parts in place, often a snap ring or circlip.



Image: All components of the Ingersoll Rand 2135-K303 Inlet Kit. These parts are essential for the proper functioning of the air valve assembly within compatible impact wrenches.

SETUP AND INSTALLATION

Installation of the 2135-K303 Inlet Kit requires careful disassembly and reassembly of the impact wrench's air valve mechanism. It is recommended to consult the specific service manual for your 2115TIMAX Impact Wrench for detailed step-by-step instructions and safety precautions.

General Installation Steps:

1. **Disconnect Air Supply:** Ensure the impact wrench is disconnected from any air supply before beginning work.
2. **Disassemble Handle/Inlet:** Carefully disassemble the handle or inlet section of the impact wrench to access the existing air valve assembly. This may involve removing retaining clips or screws.
3. **Remove Old Components:** Extract the old air valve, seals, spring, and retainer. Note the order and orientation of each component during removal. Pay close attention to any signs of wear or damage on the removed parts.
4. **Clean Area:** Thoroughly clean the internal housing where the new inlet kit components will be installed. Remove any debris, old lubricant, or deteriorated seal material.
5. **Install New Components:** Install the new components from the 2135-K303 kit in the reverse order of removal. Ensure each part (washer, O-ring seal, throttle spring, throttle valve, valve seat, seat support, and retainer) is correctly seated and oriented.
6. **Lubricate (if applicable):** Apply a small amount of pneumatic tool oil or appropriate lubricant to the O-rings and moving parts as specified by the impact wrench's service manual.
7. **Reassemble:** Carefully reassemble the impact wrench, ensuring all connections are secure and no parts are pinched.
8. **Test for Leaks:** Reconnect the air supply and test the impact wrench for proper operation and any air leaks.

Note: The rubber O-ring from the trigger assembly may need to be removed if it is causing the trigger to

stick or the tool to leak air constantly, as indicated by common repair experiences.

OPERATING PRINCIPLES

Once installed, the 2135-K303 Inlet Kit restores the proper air flow control to your Ingersoll Rand 2115TIMAX Impact Wrench. The throttle valve, actuated by the trigger, precisely regulates the compressed air entering the tool, allowing for controlled operation. A properly functioning inlet kit ensures that air is only supplied when the trigger is depressed and completely sealed when released, preventing continuous air leakage and maintaining tool efficiency.

MAINTENANCE

Regular maintenance of your impact wrench, including the air valve assembly, is crucial for its longevity and performance. The primary maintenance for the inlet kit involves inspecting and replacing worn seals and components.

Key Maintenance Points:

- **Inspect Seals:** Periodically inspect the O-ring seal (28B) and valve seat (28E) for signs of wear, cracking, or flaking. Deteriorated seals are a common cause of air leaks.
- **Clean Components:** Keep the throttle valve (28D) and its housing clean from debris and old lubricant buildup.
- **Lubrication:** Ensure proper lubrication of the internal components as per the impact wrench's general maintenance schedule. Use lubricants specifically designed for pneumatic tools.
- **Replace as Needed:** If any component of the inlet kit shows significant wear or damage, replace the entire kit to restore optimal function and prevent further issues.

TROUBLESHOOTING

The 2135-K303 Inlet Kit is designed to resolve specific issues related to the air valve assembly. If you experience the following problems, replacing this kit is often the solution:

Common Issues and Solutions:

Problem	Possible Cause	Solution
Impact wrench leaks air constantly (hissing sound)	Worn or damaged O-ring seal (28B) or valve seat (28E). Debris preventing proper sealing.	Replace the 2135-K303 Inlet Kit. Ensure the area is clean before installation.
Trigger is sticky or stuck in the depressed position	Deteriorated rubber from seals causing obstruction. Worn throttle valve (28D) or spring (28C).	Replace the 2135-K303 Inlet Kit. Clean the trigger mechanism thoroughly.
Impact wrench continues to spin after trigger release	Throttle valve (28D) not fully seating due to wear or debris.	Replace the 2135-K303 Inlet Kit.

SPECIFICATIONS

Attribute	Detail
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Attribute	Detail
Brand	Ingersoll Rand
Model Number	2135K303
Compatible Tool	Ingersoll Rand 2115TiMAX Impact Wrench
Item Weight	0.32 ounces (approx. 9.07 g)
Product Dimensions	4.25 x 4 x 0.5 inches
UPC	048172058214
Power Source	Air-powered (for the tool it services)

WARRANTY AND SUPPORT

For detailed warranty information and customer support regarding your Ingersoll Rand 2135-K303 Inlet Kit or the 2115TiMAX Impact Wrench, please refer to the original product packaging, the manufacturer's official website, or contact Ingersoll Rand customer service directly. Keep your purchase receipt for warranty claims.

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