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› Porter Cable OEM 903787 Overhaul Kit Instruction Manual

PORTER-CABLE 903787

Porter Cable OEM 903787 Overhaul Kit Instruction Manual

For MS200, DA250, FN250, and DA250A Nailers and Staplers

1. INTRODUCTION

This instruction manual provides essential information for the proper installation and maintenance of the Porter Cable OEM 903787 Overhaul Kit. This kit is designed to restore optimal performance to compatible Porter Cable nailers and staplers experiencing air leaks or sluggish operation. By following these guidelines, you can ensure the longevity and efficiency of your tool.

2. SAFETY INFORMATION

Always prioritize safety when working with power tools and their components. Failure to follow these safety instructions may result in serious injury or damage to the tool.

- **Disconnect Power:** Before performing any maintenance or installation, always disconnect the tool from its air supply.
- **Wear Personal Protective Equipment (PPE):** Use safety glasses, gloves, and hearing protection as required.
- **Read Tool Manual:** Refer to your specific nailer or stapler's original instruction manual for additional safety precautions and disassembly/assembly procedures.
- **Work in a Well-Ventilated Area:** Ensure adequate ventilation if using any cleaning solvents.
- **Use Correct Parts:** Only use genuine OEM replacement parts to ensure proper fit and function.
- **Secure Workpiece:** Ensure the tool is stable and secure during disassembly and reassembly.

3. PRODUCT OVERVIEW

The Porter Cable OEM 903787 Overhaul Kit is a genuine replacement part designed to address common issues such as air leaks and sluggish operation in compatible Porter Cable pneumatic tools.

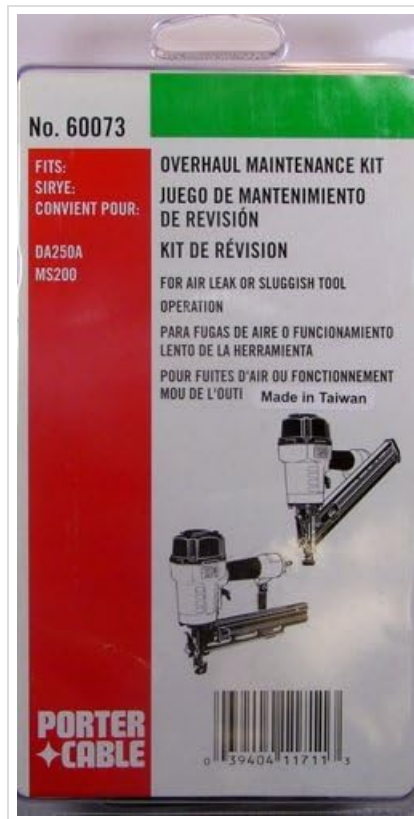


Figure 3.1: Packaging for the Porter Cable OEM 903787 Overhaul Kit. The label clearly indicates "No. 60073" and "OVERHAUL MAINTENANCE KIT". It also specifies compatibility with "DA250A" and "MS200" models, and states the kit is "FOR AIR LEAK OR SLUGGISH TOOL OPERATION". The packaging measures approximately 8.20 x 4.35 x 1.80 inches.

3.1 Kit Contents

The overhaul kit typically includes various seals, O-rings, and other components necessary for rebuilding the internal pneumatic system of your tool. The exact components may vary, but the kit is designed to replace worn parts causing air pressure loss or reduced firing power.

3.2 Compatibility

This overhaul kit (part number 903787, also referred to as 60073) is compatible with the following Porter Cable models:

- Porter Cable MS200 Type 1 Stapler
- Porter Cable MS200 Type 2 Stapler
- Porter Cable DA250 Nailer
- Porter Cable FN250 Type 1 2in Nailer
- Porter Cable DA250A Nailer

Note: Always verify your tool's model number before purchasing and installing replacement parts.

4. INSTALLATION (OVERHAUL PROCEDURE)

The installation of the overhaul kit involves disassembling your pneumatic tool, replacing worn seals and components, and then reassembling the tool. This procedure requires careful attention to detail and familiarity with your specific tool's construction. If you are unsure about any step, consult a qualified technician or refer to detailed repair guides for your specific model.

4.1 Required Tools and Materials

- Screwdrivers (Phillips, Flathead)
- Hex Keys / Allen Wrenches

- Snap Ring Pliers (if applicable)
- Clean Cloths
- Pneumatic Tool Grease/Oil (non-detergent, specifically for air tools)
- Small Container for Parts (to keep track of screws and small components)

4.2 General Installation Steps

1. **Preparation:** Ensure the tool is disconnected from the air supply. Clean the exterior of the tool to prevent dirt from entering internal components during disassembly.
2. **Disassembly:** Carefully disassemble the tool according to your specific model's service manual or a reliable repair guide. Pay close attention to the order of components and the location of all seals and O-rings. Take photos if necessary to aid reassembly.
3. **Inspection and Cleaning:** Inspect all internal components for wear, damage, or excessive build-up. Clean all parts thoroughly, removing old grease, dirt, and debris.
4. **Component Replacement:** Replace all old seals, O-rings, and other specified components with the new parts from the 903787 overhaul kit. Lightly lubricate new O-rings with pneumatic tool grease/oil before installation to ensure proper seating and prevent pinching.
5. **Reassembly:** Reassemble the tool in the reverse order of disassembly. Ensure all screws are tightened securely but do not overtighten, as this can strip threads or crack housings.
6. **Initial Test:** After reassembly, connect the tool to a regulated air supply. Set the air pressure to the minimum recommended operating pressure for your tool. Perform a few test fires into a scrap piece of material to check for proper function and listen for any air leaks.
7. **Leak Check:** If air leaks are detected, disconnect the air supply and re-examine the areas where leaks are present. Common leak points include the trigger valve, cylinder cap, and manifold connections. Ensure all seals are properly seated and components are tightened.

For detailed visual guides, searching for "Porter Cable [Your Model Number] rebuild" or "overhaul kit installation" on video platforms may provide helpful resources.

5. OPERATING (AFTER OVERHAUL)

Once the overhaul kit has been successfully installed and the tool reassembled, it should operate as intended, free from air leaks and with restored power. Always follow the original operating instructions for your specific Porter Cable nailer or stapler.

- **Air Pressure:** Ensure your air compressor is set to the recommended operating pressure range for your tool.
- **Fastener Loading:** Load fasteners correctly into the magazine.
- **Test Firing:** Before use on a project, always test fire the tool on scrap material to confirm proper operation and fastener depth.

6. MAINTENANCE

Regular maintenance after installing the overhaul kit will help prolong the life of your tool and the new components.

- **Lubrication:** Apply a few drops of pneumatic tool oil into the air inlet before each use or at the start of each workday. This lubricates the internal O-rings and moving parts.
- **Cleanliness:** Keep the tool clean and free of debris. Regularly clean the magazine and nosepiece.
- **Air Supply:** Ensure your air compressor has a functioning air filter and water trap to prevent moisture and contaminants from entering the tool.
- **Storage:** Store the tool in a clean, dry environment when not in use.

7. TROUBLESHOOTING

If you encounter issues after installing the overhaul kit, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Air Leakage	Improperly seated O-ring or seal; damaged O-ring; loose connection.	Disconnect air, re-disassemble affected area, inspect and reseat/replace O-rings, ensure connections are tight. Apply pneumatic tool oil to O-rings.
Sluggish Operation / Low Power	Insufficient air pressure; internal friction; partially blocked air passages.	Check air compressor pressure. Ensure adequate lubrication. Re-inspect internal components for proper assembly and cleanliness.
Tool Not Firing	Trigger valve issue; driver blade stuck; safety mechanism engaged.	Verify trigger valve components are correctly installed. Check for obstructions in the nosepiece. Ensure safety mechanisms are disengaged.
Fasteners Not Driving Fully	Low air pressure; worn driver blade (not included in kit); depth adjustment issue.	Increase air pressure within recommended limits. Check depth adjustment. Inspect driver blade for wear (may require separate replacement).

If problems persist after troubleshooting, it is recommended to contact Porter Cable customer support or a certified service center.

8. SPECIFICATIONS

Part Number: 903787 (also known as 60073)

Product Type: Overhaul Kit / Replacement Parts

Brand: PORTER-CABLE

Material: Metal (components within the kit, e.g., O-rings are typically rubber/synthetic)

Approximate Package Dimensions: 8.2 x 4.35 x 0.04 inches (Note: This refers to the packaging, not the kit components themselves)

Approximate Item Weight: 0.01 ounces

Compatibility: Porter Cable MS200, DA250, FN250, DA250A series nailers and staplers.

9. WARRANTY INFORMATION

Specific warranty details for the Porter Cable OEM 903787 Overhaul Kit should be obtained directly from Porter Cable or the authorized retailer from whom the kit was purchased. Generally, genuine OEM replacement parts are covered by the manufacturer's standard warranty for parts, which typically covers defects in material and workmanship.

Please retain your proof of purchase for any warranty claims.

10. CUSTOMER SUPPORT

For further assistance, technical support, or to inquire about additional replacement parts, please contact Porter Cable customer service or visit their official website:

Porter Cable Official Website: www.portercable.com

Refer to the website for contact numbers and service center locations.

