

HILTI DX 5 SM (2142666)

Hilti DX 5 SM Powder-Actuated Tool Instruction Manual

Model: DX 5 SM (2142666)

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Hilti DX 5 SM powder-actuated tool. Please read this manual thoroughly before initial use and keep it for future reference. Adherence to these instructions is crucial for preventing accidents and ensuring optimal performance of the tool.

2. SAFETY INFORMATION

WARNING: Powder-actuated tools are powerful and can cause serious injury or death if not used correctly. Always follow all safety precautions.

- Always wear appropriate personal protective equipment (PPE), including eye protection, hearing protection, and safety gloves.
- Ensure the work area is clear of bystanders and free from flammable materials.
- Never point the tool at yourself or others.
- Only use fasteners and powder loads specifically designed for the Hilti DX 5 SM tool.
- Before use, inspect the tool for any damage or wear. Do not use a damaged tool.
- Keep children and unauthorized persons away from the tool.
- Store the tool and powder loads securely and out of reach of children.
- Refer to local regulations and safety standards for powder-actuated tools.

3. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- 1x DX 5_01 Basic unit
- 1x MX SM Steel magazine assembly
- 2x X-5-460-PSM Piston
- 1x 13 Round brush
- 1x X-5-460-Clean Cleaning kit

- 1x Case



Image 1: Hilti DX 5 SM Powder-Actuated Tool with its components and carrying case.

4. SETUP

1. **Unpack the Tool:** Carefully remove all components from the carrying case.
2. **Inspect Components:** Check all parts for any signs of damage or missing pieces.
3. **Assemble Magazine:** Attach the MX SM Steel magazine assembly to the basic unit according to the diagrams in the full Hilti user manual (not provided here). Ensure it is securely fastened.
4. **Load Fastener:** Insert the appropriate fastener into the tool's guide.
5. **Load Powder Cartridge:** Insert the correct powder cartridge strip into the magazine. Refer to the Hilti powder load selection chart for the appropriate load for your application.
6. **Safety Check:** Before each use, perform a functional check to ensure all safety mechanisms are working correctly.

5. OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation:

1. **Prepare Work Surface:** Ensure the base material is suitable for powder-actuated fastening and free from obstructions.
2. **Position the Tool:** Place the tool firmly and perpendicularly against the work surface. Ensure the fastener guide is flush with the material.
3. **Apply Pressure:** Apply firm, consistent pressure to the tool handle to engage the safety mechanism.
4. **Actuate the Tool:** Once the tool is fully compressed against the surface, pull the trigger to drive the fastener.
5. **Release and Reload:** Release pressure, remove the tool from the surface, and allow the magazine to advance to the next powder cartridge.
6. **Clear Misfires:** In case of a misfire, keep the tool pressed against the surface for at least 30 seconds, then carefully remove the powder cartridge according to Hilti's safety guidelines. Never attempt to re-fire a misfired cartridge.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Hilti DX 5 SM tool.

- **Daily Cleaning:** After each use, clean the tool thoroughly using the provided X-5-460-Clean Cleaning kit and 13 Round brush. Remove all powder residue and debris.
- **Piston Inspection:** Regularly inspect the X-5-460-PSM Piston for wear or damage. Replace pistons as needed to maintain optimal performance and safety.
- **Lubrication:** Apply Hilti-approved lubricant to moving parts as specified in the detailed Hilti maintenance guide.
- **Storage:** Store the tool in its original case in a dry, secure location, away from extreme temperatures and unauthorized access.
- **Professional Servicing:** For complex repairs or annual inspections, contact an authorized Hilti service center.

7. TROUBLESHOOTING

This section addresses common issues you might encounter. For problems not listed here, contact Hilti customer support.

Problem	Possible Cause	Solution
Tool does not fire	<ul style="list-style-type: none"> • Insufficient pressure applied • No powder cartridge loaded • Damaged powder cartridge • Tool is dirty or jammed 	<ul style="list-style-type: none"> • Apply firm, consistent pressure • Load a new powder cartridge • Replace powder cartridge • Clean the tool thoroughly
Fastener does not drive fully	<ul style="list-style-type: none"> • Incorrect powder load strength • Worn piston • Hard base material 	<ul style="list-style-type: none"> • Use a stronger powder load • Replace the piston (X-5-460-PSM) • Ensure material is suitable or pre-drill if necessary
Tool jams frequently	<ul style="list-style-type: none"> • Tool is dirty • Incorrect fasteners • Damaged magazine 	<ul style="list-style-type: none"> • Clean the tool regularly • Use only Hilti-approved fasteners • Inspect and replace damaged magazine (MX SM)

8. SPECIFICATIONS

Feature	Detail
Brand	HILTI
Model Number	2142666 (DX 5 SM)
Manufacturer	Hilti
Item Package Quantity	1
Batteries Required?	No
ASIN	B079XY2XJ1
First Available	February 20, 2018

9. WARRANTY AND SUPPORT

For detailed warranty information, product support, or to locate an authorized service center, please visit the official Hilti website or contact Hilti customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

Hilti Official Website: www.hilti.com