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POWERS 50040

Powers Fastening Innovations 50040 Drive Pin User Manual

Model: 50040 | Brand: POWERS

1. Product Overview

The Powers Fastening Innovations 50040 Drive Pin is a specialized fastener designed for use with powder-actuated tools. These pins are engineered for secure and efficient fastening into concrete and masonry substrates. Each pin features a 2-1/4-inch length, a 0.300-inch head diameter, and a 0.145-inch shank diameter, making them suitable for a range of construction and industrial applications.



Image 1.1: A Powers Fastening Innovations 50040 Drive Pin. The pin has a sharp, pointed tip, followed by a red plastic collar with multiple fins, and a long, metallic shank ending in a flat, circular head.

2. Safety Information

When working with powder-actuated fasteners and tools, adherence to safety protocols is paramount. Always read and understand the operating manual for your specific powder-actuated tool before use. Failure to follow safety guidelines can result in serious injury.

- **Eye Protection:** Always wear ANSI Z87.1 approved safety glasses or goggles.
- **Hearing Protection:** Use earplugs or earmuffs to protect against noise exposure.
- **Head Protection:** A hard hat is recommended in construction environments.
- **Hand Protection:** Wear appropriate gloves to protect hands.
- **Tool Compatibility:** Ensure the drive pin is compatible with your powder-actuated tool.
- **Substrate Suitability:** Verify the material you are fastening into (e.g., concrete, steel) is suitable for direct fastening and free of hidden obstructions like rebar or electrical conduits.
- **Work Area:** Keep the work area clear of bystanders and ensure adequate ventilation.
- **Never Point:** Never point a loaded tool at yourself or others.
- **Unfired Loads:** Handle unfired power loads and pins with care.

3. Product Contents

Each package of Powers Fastening Innovations 50040 Drive Pins contains 100 individual drive pins. These pins are designed for single-use applications with compatible powder-actuated fastening tools.

4. Setup

1. **Tool Preparation:** Ensure your powder-actuated tool is clean, well-maintained, and in good working order according to its manufacturer's instructions.
2. **Pin Selection:** Confirm that the 50040 Drive Pin is the correct length and diameter for your specific fastening application and tool.
3. **Power Load Selection:** Choose the appropriate power load (cartridge) based on the substrate material and the required fastening strength. Refer to your tool's manual for guidance on power load selection.
4. **Loading:** Carefully load the drive pin and power load into the powder-actuated tool as directed by the tool's operating manual.

5. Operating Instructions

1. **Positioning:** Place the nose of the powder-actuated tool firmly and squarely against the surface where the pin is to be driven. Ensure the tool is held perpendicular to the surface.
2. **Activation:** Follow the specific activation procedure for your powder-actuated tool (e.g., pressing firmly and pulling the trigger).
3. **Post-Fastening Inspection:** After firing, inspect the driven pin to ensure it is fully embedded and securely fastened. The head of the pin should be flush or slightly recessed, and the fastening should feel solid.
4. **Tool Cycling:** Cycle the tool according to its manual to eject the spent power load and prepare for the next fastening.

6. Maintenance

The Powers 50040 Drive Pins themselves require minimal maintenance. However, proper storage is crucial to maintain their integrity and performance.

- **Storage:** Store pins in their original packaging in a cool, dry place, away from direct sunlight and sources of moisture.
- **Inspection:** Before use, visually inspect each pin for any signs of damage, corrosion, or deformation. Do not use damaged pins.

7. Troubleshooting Common Issues

While issues are often related to the powder-actuated tool or application, here are some common problems and general solutions related to pin performance:

- **Pin Not Fully Embedded:**
    - Ensure sufficient pressure is applied to the tool.
    - Verify the correct power load strength for the substrate.
    - Check the substrate for excessive hardness or hidden obstructions.
- **Pin Bending or Breaking:**

- Confirm the pin type is appropriate for the material being fastened.
- Ensure the tool is held perpendicular to the surface.
- Avoid fastening into rebar or other extremely hard materials.

- **Pin Ricochet:**
  - Always use appropriate safety gear.
  - Ensure the tool is firmly pressed against the surface.
  - Do not attempt to fasten into brittle or spalling materials.

8. Specifications

Attribute	Value
Brand	POWERS
Model Number	50040
Part Number	50040
Pin Type	Drive
Material	Concrete, Carbide
Item Weight	2.82 ounces
Product Dimensions	2.5 x 4.3 x 3.4 inches (Package Dimensions)
Item Package Quantity	1 (referring to 1 box)
Number of Pieces	100
Measurement System	Inch
Batteries Included?	No
Batteries Required?	No
Country of Origin	TAIWAN, PROVINCE OF CHINA
UPC	075352600253
ASIN	B00ITGBGAK
Date First Available	March 4, 2014

9. Storage and Handling

Proper storage and handling of Powers 50040 Drive Pins are essential for maintaining their quality and ensuring safe operation.

- Keep pins in their original packaging until ready for use to protect them from environmental factors and physical damage.

- Store in a dry, temperate environment. Humidity can lead to corrosion, which may affect performance.
- Handle pins carefully to avoid bending or damaging the tips or heads.
- Keep out of reach of children and unauthorized personnel.

10. Disposal

Unused or damaged drive pins should be disposed of responsibly. As metal components, they may be recyclable in some areas. Consult your local waste management authority for specific guidelines on disposing of metal fasteners.

11. Warranty and Support

Warranty information for Powers Fastening Innovations products, including drive pins, is typically provided by the manufacturer or through the point of purchase. For specific warranty details or technical support, please refer to the official Powers Fastening Innovations website or contact their customer service department directly. Always retain your purchase receipt for warranty claims.

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