

## Cooper Hand Tools AM-03

# APEX AM-03 1/4-inch Hex Drive Power Bit Instruction Manual

Model: AM-03 | Brand: Cooper Hand Tools

## 1. INTRODUCTION

Thank you for choosing the APEX AM-03 1/4-inch Hex Drive Power Bit. This manual provides essential information for the safe and efficient use of your new power tool accessory. Please read these instructions carefully before use and retain them for future reference.

## 2. SAFETY INFORMATION

Always follow basic safety precautions when using power tools and accessories to reduce the risk of personal injury. This bit is designed for professional and personal use with compatible power drivers.

- **Wear Eye Protection:** Always wear ANSI-approved safety goggles or safety glasses with side shields when operating power tools.
- **Wear Hand Protection:** Use appropriate gloves to protect hands from splinters, sharp edges, and vibrations.
- **Secure Workpiece:** Ensure the workpiece is stable and securely clamped to prevent movement during operation.
- **Use Correct Bit:** Select the correct size and type of bit for the fastener to prevent stripping or damage.
- **Inspect Bit:** Before each use, inspect the bit for any signs of wear, cracks, or damage. Do not use damaged bits.
- **Proper Insertion:** Ensure the bit is fully and securely inserted into the power tool's chuck or quick-change connector.
- **Maintain Control:** Always maintain a firm grip on the power tool and be aware of its torque.
- **Keep Work Area Clear:** Ensure the work area is well-lit and free from obstructions.
- **Disconnect Power:** Always disconnect the power tool from its power source before changing bits or performing maintenance.

## 3. PRODUCT OVERVIEW

The APEX AM-03 is a durable 1/4-inch hex drive power bit designed for driving hex head fasteners.

Constructed from high-quality alloy tool steel, it offers strength and longevity for various applications. Its ball-locking feature ensures a secure fit in compatible drivers.



**Figure 1:** APEX AM-03 1/4-inch Hex Drive Power Bit. This image shows the metallic hex drive power bit, designed for use with power tools to drive hex fasteners. It features a hexagonal shaft for insertion into a driver and a smaller hexagonal tip for engaging fasteners.

## 4. SETUP

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1. **Select the Correct Bit:** Ensure the AM-03 bit matches the size and type of the hex fastener you intend to drive.
2. **Prepare Power Tool:** Ensure your power drill or impact driver is unplugged or has its battery removed before attaching the bit.
3. **Insert Bit:** Insert the 1/4-inch hex shank of the AM-03 bit firmly into the chuck of your power tool or a quick-change bit holder. For quick-change holders, pull back the collar, insert the bit, and release the collar to lock it in place. For chucks, tighten the chuck jaws securely around the bit shank.
4. **Verify Security:** Gently pull on the bit to ensure it is securely seated and will not come loose during operation.

## 5. OPERATING INSTRUCTIONS

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Once the bit is securely installed in your power tool, follow these steps for operation:

1. **Position Fastener:** Place the hex tip of the AM-03 bit into the head of the hex fastener. Ensure a snug fit to prevent cam-out.
2. **Apply Pressure:** Apply firm, steady pressure directly in line with the fastener to prevent the bit from slipping.
3. **Start Slowly:** Begin driving the fastener at a low speed, gradually increasing speed as the fastener engages.
4. **Monitor Torque:** Be mindful of the power tool's torque settings to avoid over-tightening or stripping the fastener.
5. **Complete Task:** Continue driving until the fastener is seated as desired.
6. **Remove Bit:** After use, disconnect the power tool from its power source and carefully remove the bit.

## 6. MAINTENANCE

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- **Cleaning:** After each use, wipe the bit clean with a dry cloth to remove any debris, dust, or residue. Avoid using harsh chemicals that could damage the material.
- **Inspection:** Regularly inspect the bit for signs of wear, such as rounded edges on the hex tip, cracks, or corrosion. Replace worn or damaged bits immediately to ensure safe and effective operation.
- **Storage:** Store the AM-03 bit in a dry environment, away from moisture and corrosive materials. A bit organizer or case is recommended to protect the tip and prevent loss.

## 7. TROUBLESHOOTING

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If you encounter issues while using your APEX AM-03 bit, consider the following:

- **Bit Slipping/Cam-out:**
  - Ensure the bit size matches the fastener head precisely.
  - Apply more direct, firm pressure to the power tool.
  - Reduce the speed of the power tool.
  - Inspect the bit tip for wear; a worn tip will slip more easily.
- **Fastener Stripping:**
  - Verify the bit size is correct for the fastener.
  - Reduce the torque setting on your power tool.
  - Avoid over-tightening.
- **Bit Breaking:**
  - Ensure the bit is fully inserted and securely fastened in the chuck.
  - Avoid excessive side pressure or bending force on the bit.
  - Do not use the bit for applications beyond its intended design.

## 8. SPECIFICATIONS

Model Number	AM-03 (Part Number: 071-AM-03)
Tip Type	Hex
Drive Type	Hex
Drive Size	1/4 inch
Locking Type	Ball
Material	Alloy Tool Steel
Item Weight	3.2 ounces (approx. 90.7 grams)
Product Dimensions	1 x 1 x 1 inches (approximate, as per product data)
Compatible Fastener Range	0.25 inches (Hex)

## 9. WARRANTY AND SUPPORT

For information regarding warranty coverage, product support, or to contact customer service, please refer to the official Cooper Hand Tools website or the retailer from whom the product was purchased. Keep your proof of purchase for warranty claims.

**Manufacturer:** Cooper Tools

