

Makita E-03420

Makita E-03420 Impact Premier Tilt Socket Adapter 3/8-inch Drive

MODEL: E-03420

Introduction

The Makita E-03420 Impact Premier Tilt Socket Adapter is engineered for professional use with impact drivers, designed to meet high torque demands across various industries. This adapter features a robust construction from special alloy steel with heat treatment, ensuring enhanced hardness and torque capacity for extended durability. Its precision-machined tips provide an exact fit, minimizing variance when engaging with fasteners. The Impact Premier range is color-coded for easy identification of bit shapes. This adapter is an essential accessory for tasks requiring a 3/8-inch drive socket with the flexibility of a tilt mechanism.

Safety Instructions

Always observe the following safety precautions when using the Makita E-03420 Impact Premier Tilt Socket Adapter:

- **Wear Eye Protection:** Always wear appropriate eye protection, such as safety glasses or goggles, to prevent eye injuries from flying debris.
- **Wear Hand Protection:** Use work gloves to protect hands from sharp edges or pinch points.
- **Use Correct Tool:** Ensure the adapter is used with an impact driver. Do not use with standard drills or other tools not designed for impact applications.
- **Inspect Before Use:** Before each use, inspect the adapter for any signs of wear, damage, or cracks. Do not use a damaged adapter.
- **Secure Attachment:** Ensure the adapter is securely seated in the impact driver and the socket is firmly attached to the adapter before operation.
- **Avoid Overloading:** Do not exceed the recommended torque capacity of the adapter or the impact driver.
- **Keep Work Area Clear:** Maintain a clean and well-lit work area to prevent accidents.
- **Keep Children Away:** Do not allow children or untrained persons to operate power tools or accessories.

Product Overview

Features

- Designed for use with impact drivers for high torque applications.
- Suitable for a wide range of fastening jobs across various industries.
- Constructed from special alloy steel with heat treatment for improved hardness and durability.
- Precision-machined tips ensure an exact fit with minimal variance.
- Features a tilt mechanism for improved access in confined spaces.
- Standard color coding for easy identification within the Impact Premier range.
- Compact 50mm length for versatility.

Components

The Makita E-03420 adapter consists of a 1/4-inch hex shank for insertion into an impact driver, a durable body, and a 3/8-inch square drive end with a ball detent for securing sockets. The tilt mechanism is integrated into the square drive end, allowing for angular movement.



Figure 1: The Makita E-03420 Impact Premier Tilt Socket Adapter. This image shows the adapter's 1/4-inch hex shank on one end and the 3/8-inch square drive with a ball detent on the other, highlighting its robust construction.

Setup

Follow these steps to properly set up your Makita E-03420 adapter:

1. **Prepare Impact Driver:** Ensure your impact driver is turned off and unplugged (if corded) or has its battery removed (if cordless) before attaching any accessories.
2. **Insert Adapter:** Insert the 1/4-inch hex shank of the E-03420 adapter into the chuck of your impact driver. Push firmly until it clicks into place, ensuring it is securely locked.
3. **Attach Socket:** Select the appropriate 3/8-inch drive socket for your application. Push the socket onto the square drive end of the adapter until the ball detent engages, holding the socket firmly.

4. **Verify Security:** Gently pull on the adapter and the socket to confirm they are securely attached and will not detach during operation.



Figure 2: The Makita E-03420 adapter securely attached to an impact driver. This illustrates the correct way to mount the adapter for use.

Operating Instructions

Once the adapter and socket are securely attached, you can begin operation:

1. **Positioning:** Place the socket onto the fastener head. Ensure the socket is fully engaged with the fastener to prevent stripping.
2. **Utilizing the Tilt Function:** The adapter's tilt mechanism allows for up to 15 degrees of angular movement. This is particularly useful for reaching fasteners in tight or awkward spaces where a straight extension cannot be used. Gently angle the adapter as needed to align with the fastener.
3. **Applying Torque:** With the socket firmly on the fastener, activate your impact driver. Apply steady pressure and allow the impact mechanism to do the work. Avoid excessive force that could damage the fastener or the adapter.
4. **Monitoring:** Pay attention to the fastener and the adapter during operation. If you notice any unusual vibrations, sounds, or resistance, stop immediately and inspect your setup.
5. **Removal:** After completing the task, turn off the impact driver. Remove the socket from the fastener, then detach the socket from the adapter, and finally remove the adapter from the impact driver.



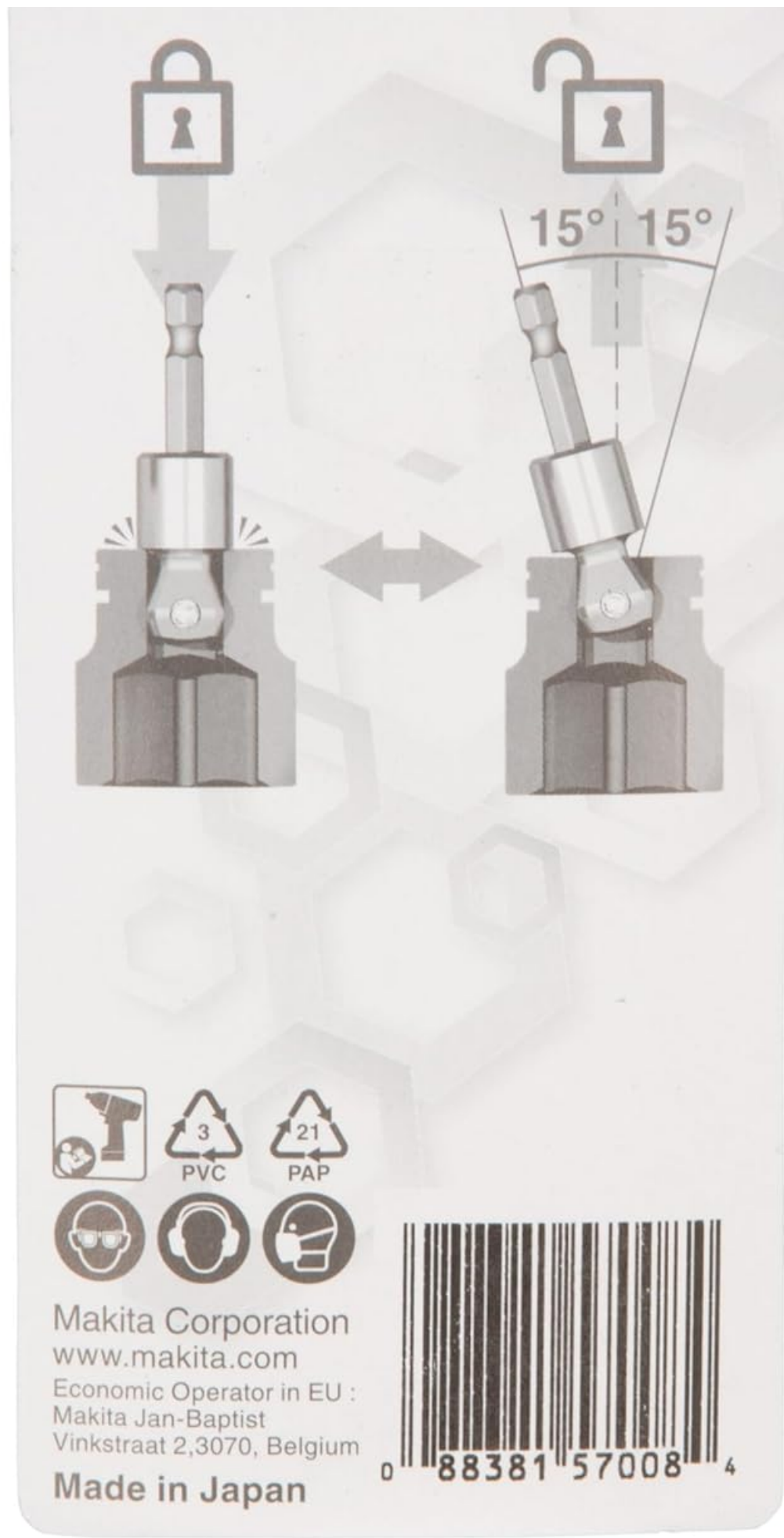


Figure 3: Illustration from the product packaging demonstrating the 15-degree tilt capability of the adapter. This visual aid helps understand how the tilt function operates.

Maintenance

Proper maintenance ensures the longevity and optimal performance of your adapter:

- **Cleaning:** After each use, wipe the adapter clean with a dry cloth to remove dirt, dust, and debris. Avoid using harsh chemicals or solvents that could damage the material or finish.
- **Inspection:** Regularly inspect the adapter for signs of wear, such as cracks, bends, or excessive play in the tilt mechanism. Check the ball detent for proper function.
- **Lubrication:** The tilt mechanism is designed for durability. If movement becomes stiff, a small amount of light machine oil can be applied to the pivot points, but avoid over-lubrication.
- **Storage:** Store the adapter in a dry, clean environment, away from moisture and corrosive materials. Keeping it in a tool box or organizer will protect it from damage.
- **Replacement:** If the adapter shows significant signs of wear or damage, replace it immediately to prevent injury or damage to fasteners and tools.

Troubleshooting

Here are solutions to common issues you might encounter:

Problem	Possible Cause	Solution
Adapter does not fit into impact driver chuck.	Chuck not fully open or adapter not aligned.	Ensure chuck is fully open. Align the hex shank correctly and push firmly until it locks.
Socket slips off the adapter.	Ball detent not engaged or worn out. Incorrect socket size.	Ensure socket is pushed fully onto the adapter until the ball detent clicks. Verify socket is 3/8-inch drive. If ball detent is worn, replace adapter.
Adapter feels loose or wobbly in the impact driver.	Adapter not fully seated or chuck is worn.	Re-insert adapter, ensuring it locks securely. If problem persists, inspect impact driver chuck for wear.
Tilt mechanism is stiff.	Accumulated dirt or lack of lubrication.	Clean the pivot points and apply a small amount of light machine oil.

Specifications

Attribute	Detail
Model Number	E-03420
Brand	Makita
Item Length	50 Millimeters
Material	Alloy Steel
Finish Type	Polished
Number of Pieces	1
Drive System	Square

Attribute	Detail
Drive Bit Shank Style	Square Keyed Tilt
UPC	088381570084
Bit Compatibilities	Impact Drivers
Item Weight	1.13 ounces
Compatible Fastener Range	0.375 inches (3/8-inch)

Warranty and Support

For information regarding warranty coverage, technical support, or service for your Makita E-03420 Impact Premier Tilt Socket Adapter, please refer to the official Makita website or contact Makita customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

Makita Official Website: www.makitatools.com