

## Makita 267202-3

# Makita 267202-3 Flat Washer Instruction Manual

## 1. INTRODUCTION

This instruction manual provides essential information regarding the Makita 267202-3 Flat Washer. This component is an Original Equipment Manufacturer (OEM) authorized replacement part designed for use with various Makita power tool models. Its primary function is to distribute the load of a threaded fastener, such as a screw or nut, evenly across a surface, preventing damage and loosening over time. Proper installation and maintenance ensure the longevity and safe operation of your Makita tools.

## 2. PRODUCT OVERVIEW

The Makita 267202-3 Flat Washer is a critical component for maintaining the structural integrity and performance of compatible Makita equipment. It is manufactured to precise specifications to ensure a perfect fit and reliable function.

### Key Features:

- **OEM Authorized Part:** Ensures compatibility and quality as an original replacement component.
- **Versatile Compatibility:** Designed to fit various Makita models.
- **Durable Construction:** Made from alloy steel with a zinc exterior finish for resistance to wear and corrosion.
- **Part Number 267202-3:** Identical to the original part for accurate replacement.



*Image 1: The Makita 267202-3 Flat Washer. This image displays a single, dark-colored, circular flat washer, typically used to distribute load and prevent loosening in mechanical assemblies.*

### 3. SETUP AND INSTALLATION

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The Makita 267202-3 Flat Washer is a replacement part. Installation involves replacing an existing washer or adding it to a new assembly. Always refer to the specific Makita tool's service manual for detailed disassembly and reassembly instructions.

#### General Installation Steps:

1. **Safety First:** Ensure the power tool is disconnected from its power source (unplugged or battery removed) before beginning any work. Wear appropriate personal protective equipment (PPE) such as safety glasses.
2. **Identify Location:** Locate the washer that needs replacement or the area where the new washer is to be installed.
3. **Remove Old Washer (if applicable):** Carefully remove the worn or damaged washer. Note the orientation and position of all components.
4. **Clean Area:** Clean any debris or residue from the mating surfaces where the new washer will be placed.
5. **Position New Washer:** Place the Makita 267202-3 Flat Washer onto the shaft or bolt, ensuring it sits flush against the surface.
6. **Reassemble:** Reassemble the remaining components according to the tool's service manual.
7. **Secure Fastener:** Tighten the fastener (nut or bolt) to the manufacturer's specified torque settings. Overtightening or undertightening can lead to component failure.
8. **Functionality Check:** After reassembly, perform a visual inspection and a brief functional check of the tool (without load) to ensure all components are secure and operating correctly.

### 4. OPERATING PRINCIPLES

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A flat washer, such as the Makita 267202-3, does not have active 'operation' in the traditional sense. Its function is passive and static, providing several benefits within an assembly:

- **Load Distribution:** It spreads the load of a fastener over a larger area, reducing the pressure on the

mating surface and preventing damage or indentation.

- **Surface Protection:** It protects the surface of the material from damage caused by the tightening of a nut or bolt head.
- **Spacer:** It can act as a spacer to provide proper clearance or alignment between components.
- **Preload Retention:** By providing a consistent surface, it helps maintain the preload of the fastener, resisting loosening due to vibration or thermal expansion/contraction.

Once installed, the washer continuously performs these functions as part of the mechanical assembly.

## 5. MAINTENANCE

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The Makita 267202-3 Flat Washer requires minimal maintenance due to its durable construction. However, periodic inspection is recommended to ensure continued optimal performance.

### Maintenance Guidelines:

- **Visual Inspection:** During routine tool maintenance or disassembly, visually inspect the washer for signs of wear, corrosion, deformation, or cracking.
- **Replacement:** If any signs of damage or significant wear are observed, replace the washer immediately with a genuine Makita 267202-3 part to ensure proper function and safety.
- **Cleaning:** If the washer is exposed to dirt, grime, or corrosive substances, clean it with a suitable solvent and a soft cloth. Ensure it is completely dry before reassembly.
- **Storage:** Store spare washers in a clean, dry environment to prevent corrosion or damage.

## 6. TROUBLESHOOTING

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Issues related to a flat washer are typically straightforward and often involve incorrect installation or material fatigue.

### Common Issues and Solutions:

- **Fastener Loosening:**  
*Cause:* Insufficient torque during installation, vibration, or improper washer type.  
*Solution:* Ensure the fastener is tightened to the manufacturer's specified torque. Verify that the correct type and size of washer are used. Consider adding a lock washer if the application experiences high vibration (if compatible with the tool's design).
- **Damaged Mating Surface:**  
*Cause:* Washer too small, missing washer, or overtightening.  
*Solution:* Ensure the correct size washer is used to adequately distribute the load. Avoid overtightening fasteners. Replace any damaged washers.
- **Corrosion or Rust:**  
*Cause:* Exposure to moisture or corrosive environments.  
*Solution:* Replace the corroded washer. Ensure tools are stored in a dry environment. Clean and dry the washer if it becomes wet.
- **Washer Deformation:**  
*Cause:* Excessive load, incorrect material, or manufacturing defect.  
*Solution:* Replace the deformed washer. Ensure the correct OEM part is used. If deformation recurs, consult a qualified service technician.

## 7. SPECIFICATIONS

The following are the technical specifications for the Makita 267202-3 Flat Washer:

Specification	Detail
Part Number	267202-3
Washer Type	Flat
Exterior Finish	Zinc
Size	1 inch
Metal Type	Alloy Steel
Brand	Makita
Item Dimensions (L x W x H)	1 x 1 x 1 inches
Item Weight	1.01 ounces (approximate)
Shape	Flat
Item Package Quantity	1
Batteries Required?	No
ASIN	B010AYD76E
Date First Available	June 22, 2015

## 8. WARRANTY AND SUPPORT

Makita products are manufactured to high standards and are typically covered by a manufacturer's warranty against defects in materials and workmanship. For specific warranty details pertaining to the Makita 267202-3 Flat Washer or the tool it is used with, please refer to the warranty information provided with your original Makita product or visit the official Makita website.

For technical assistance, replacement parts, or service inquiries, please contact Makita customer support or an authorized Makita service center. When contacting support, have your tool's model number and the part number (267202-3) readily available.

For more information, visit the [Makita Store](#).