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MTD 987-02074B Right Hand Height Adjustment Assembly Instruction Manual

For MTD, Troy-Bilt, Yard-Machines Walk-Behind Mowers

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1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the MTD 987-02074B Right Hand Height Adjustment Assembly. This genuine MTD part is designed to restore the height adjustment functionality of compatible walk-behind lawn mowers. Please read this manual thoroughly before attempting any installation or repair.

2. COMPATIBILITY

The MTD 987-02074B Right Hand Height Adjustment Assembly is a direct OEM replacement part. It replaces prior MPN 987-02074A, 687-02166, 687-02074B, and 687-02074A.

This assembly is compatible with various walk-behind lawn mowers from brands including:

- MTD
- Troy-Bilt
- Yard-Machines
- White Outdoor
- Huskee
- Columbia
- Mastercut
- MTD Gold
- Bolens
- MTD Pro
- Platinum
- Yard-Man

Specific models this part fits include: 54M, 439R, 54M9, W54MC, W54MB, W54K, W439S, W439R, W105, W104K, W104B, Tru-Cut 110, Tru-Cut 100, TB542, 589P, 589B, 588Q, 584E, 549S, 549R, 549Q, 549P, 549G, 546N, 546M, 546H, 414G, 414F, 414E, 414C, 414A, 21 inch Mulching, 21 inch Hi-Wheel, 109Q, 109P, 105D.

Important: Always refer to your original equipment owner's manual to verify compatibility and ensure this is the correct part for your specific lawn mower model.

3. SAFETY INFORMATION

Working with power equipment requires caution. Adhere to the following safety guidelines:

- Always disconnect the spark plug wire before performing any maintenance or installation to prevent accidental starting.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the lawn mower is on a stable, level surface before beginning work.
- Allow the engine and all components to cool down completely before handling.
- If you are unsure about any step, consult a qualified service technician.

4. INSTALLATION

This section provides general guidance for replacing the right-hand height adjustment assembly. Specific steps may vary by mower model. Always refer to your mower's owner's manual for detailed instructions.

Required Tools:

- Wrenches or sockets (sizes may vary)
- Pliers
- Screwdriver

Installation Steps:

1. **Prepare the Mower:** Ensure the engine is off and cool. Disconnect the spark plug wire. Place the mower on a stable, level surface.
2. **Locate the Old Assembly:** Identify the right-hand height adjustment assembly on your mower.
3. **Remove the Old Assembly:** Carefully remove any bolts, nuts, or clips securing the old height adjustment assembly. Note the orientation and how components are connected.
4. **Install the New Assembly:** Position the new MTD 987-02074B assembly in place. Secure it using the original hardware or new hardware if provided and specified by your mower's manual. Ensure all connections are tight and secure.
5. **Test Functionality:** Once installed, carefully test the height adjustment mechanism to ensure it moves freely and locks securely into different height positions.
6. **Reconnect Spark Plug:** Reconnect the spark plug wire.



Figure 1: Top view of the MTD 987-02074B Right Hand Height Adjustment Assembly. This image shows the main body of the assembly with the adjustment lever and mounting points.



Figure 2: Side view of the assembly, highlighting the long bolt and the lever mechanism. This perspective helps in understanding how the assembly attaches to the mower deck.

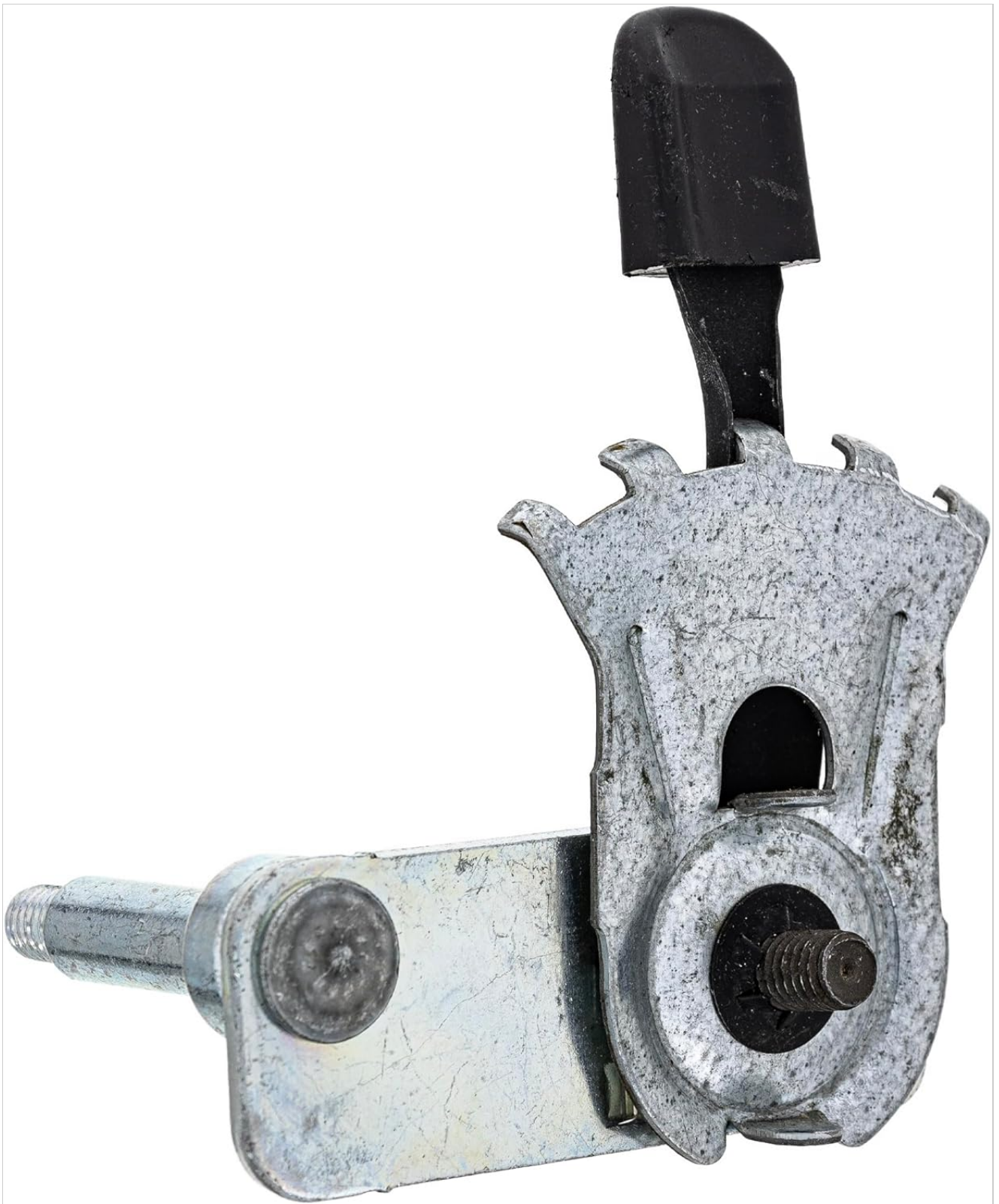


Figure 3: An angled view of the height adjustment assembly, showing the lever and the metal bracket. This view provides a clearer look at the components that engage with the mower's deck.



Figure 4: A partially disassembled view of the assembly, showing the individual components like the lever, spring, and mounting hardware. This can be useful for understanding the internal mechanism.

5. OPERATION

Once installed, the right-hand height adjustment assembly allows you to change the cutting height of your lawn mower deck. To adjust the height:

1. Ensure the mower engine is off and the blades are not spinning.
2. Locate the height adjustment lever on the right side of the mower deck.
3. Pull the lever outwards (away from the mower deck) to disengage it from its current notch.
4. Move the lever forward or backward to select the desired cutting height. Each notch corresponds to a different height setting.
5. Release the lever, ensuring it securely locks into the chosen notch. Verify that the deck is level on both sides if your mower has independent height adjustments.

6. MAINTENANCE

Regular maintenance of your height adjustment assembly ensures smooth operation and extends its lifespan.

- **Cleaning:** Periodically clean the assembly to remove grass clippings, dirt, and debris that can impede movement. Use a stiff brush or compressed air.
- **Lubrication:** Apply a light coat of general-purpose grease or silicone spray to the pivot points and sliding surfaces of the mechanism once or twice a season, or as recommended by your mower's manual.
- **Inspection:** Regularly inspect the assembly for signs of wear, damage, or corrosion. Check that all bolts and nuts are tight. Replace the assembly if it shows significant wear or damage that affects its functionality or safety.

7. TROUBLESHOOTING

If you encounter issues with your height adjustment assembly, consider the following:

- **Lever is Stiff/Hard to Move:**
 - *Cause:* Accumulation of dirt, rust, or lack of lubrication.
 - *Solution:* Clean the assembly thoroughly and apply lubricant to pivot points.
- **Lever Does Not Lock into Position:**
 - *Cause:* Debris in the notches, worn spring, or damaged lever mechanism.

- *Solution:* Clean the notches. Inspect the spring and lever for damage; replace the assembly if components are broken.

- **Mower Deck is Uneven:**

- *Cause:* Incorrect installation, damaged assembly, or issues with other deck components.
- *Solution:* Recheck installation. Ensure both left and right height adjustments are set to the same position. Inspect other deck components for damage.

For persistent issues, consult your mower's owner's manual or contact MTD customer support.

8. SPECIFICATIONS

Part Number	987-02074B
Replaces Part Numbers	987-02074A, 687-02166, 687-02074B, 687-02074A
Manufacturer	MTD
Product Dimensions	16 x 10 x 1 inches
Item Weight	12.8 ounces

9. WARRANTY & SUPPORT

As a genuine MTD part, this assembly is manufactured to high standards. For specific warranty information, please refer to the documentation provided with your original lawn mower or contact MTD Genuine Parts customer service directly.

For technical assistance or to inquire about replacement parts, please visit the official MTD website or contact their customer support line. When contacting support, have your mower's model and serial number, along with the part number (987-02074B), readily available.