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**Poagavgs 946-04206A**

# Poagavgs 946-04206A Variable Speed Cable Instruction Manual

## Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the Poagavgs 946-04206A Variable Speed Cable. This replacement part is designed to restore variable speed functionality to compatible lawn mowers, ensuring optimal performance and ease of use. Please read these instructions carefully before proceeding with installation or use.

## Compatibility

The Poagavgs 946-04206A Variable Speed Cable is a direct replacement for original equipment manufacturer (OEM) part numbers 946-04206A, 746-04206A, 290-925, 946-04206, and 746-04206.

It is compatible with various MTD, Troy Bilt, and Cub Cadet lawn mower models, specifically MTD 500 Series Mowers. Verify your mower's required part number against the replacements listed above to ensure proper fitment.

## Safety Information

Always prioritize safety when working with machinery. Failure to follow safety guidelines can result in injury or damage to equipment.

- **Disconnect Spark Plug:** Before performing any maintenance or installation, always disconnect the spark plug wire to prevent accidental engine starting.
- **Wear Protective Gear:** Use appropriate personal protective equipment, including gloves and eye protection.
- **Read Mower Manual:** Refer to your lawn mower's original owner's manual for specific safety instructions and procedures.
- **Secure Mower:** Ensure the mower is on a stable, level surface and cannot roll or tip during work.
- **Use Correct Tools:** Use only the tools specified for the task to avoid damage to parts or injury.

## Package Contents

- 1 x Poagavgs 946-04206A Variable Speed Cable
- 2 x Cable Ties (may vary in size)

## Setup and Installation

This section outlines the steps for replacing the variable speed cable. The cable features a "Z" bend on one end and a "T" bend on the other.



Figure 1: Overview of the Poagavgs 946-04206A Variable Speed Cable.

1. **Preparation:** Ensure the mower is turned off, the spark plug wire is disconnected, and the mower is stable. Gather necessary tools (e.g., wrenches, screwdrivers, pliers).
2. **Access the Cable:** Locate and remove any shrouds or covers that obstruct access to the existing variable speed cable, particularly around the front axle and transmission area.
3. **Disconnect Old Cable (Transmission End):** Disconnect the "Z" bend end of the old cable from the transmission mechanism. This is typically the end that connects to the drive system.



Figure 2: Detail of the "Z" bend end, typically connecting to the transmission.

4. **Disconnect Old Cable (Handle End):** Disassemble the variable speed control mechanism on the mower handle. Carefully remove the "T" bend end of the old cable from its adjustment slot.




Figure 3: Detail of the "T" bend end, typically connecting to the handle control.

5. **Remove Old Cable:** Carefully pull the old cable out, noting its routing path to ensure the new cable is installed correctly.
6. **Install New Cable (Transmission End):** Route the new cable along the same path as the old one. Hook the "Z" bend end of the new cable into the transmission first.
7. **Install New Cable (Handle End):** Place the "T" bend end of the new cable into the adjustment slot within the variable speed control on the handle. Reassemble the control mechanism.
8. **Secure Cables:** Use the provided cable ties (or suitable alternatives) to secure the new variable speed cable and any other adjacent cables (e.g., throttle cable) to the mower handle or frame, ensuring they are clear of moving parts and pinch points.
9. **Reassemble:** Replace any shrouds or covers that were removed.
10. **Initial Test and Adjustment:** Reconnect the spark plug wire. Start the mower and test the variable speed control. If necessary, adjust the cable tension at the handle control to achieve the desired speed response.

## Operating Instructions

Once the variable speed cable is correctly installed, operate your lawn mower according to its original manufacturer's instructions. The cable facilitates the adjustment of the mower's ground speed, allowing you to match the pace to your comfort and lawn conditions.

- **Speed Adjustment:** Use the variable speed control lever or dial on your mower's handle to increase or decrease the mower's forward speed.
- **Smooth Engagement:** Engage the variable speed control smoothly to avoid sudden jerks or loss of traction.

## Maintenance

Proper maintenance can extend the life of your variable speed cable and ensure reliable operation.

- **Regular Inspection:** Periodically inspect the cable for signs of wear, fraying, kinks, or damage. Check the connection points at both ends.
- **Lubrication:** Apply a light lubricant to the cable ends and any exposed moving parts of the control mechanism annually or as recommended by your mower's manual.
- **Cleanliness:** Keep the cable and its routing path free from dirt, debris, and grass clippings that could impede its movement.
- **Proper Routing:** Ensure the cable remains securely fastened and routed away from hot engine parts or sharp edges.

## Troubleshooting

If you experience issues with your variable speed control after installation, consider the following:

- **No Speed Change / Incorrect Speed:**
  - Check cable tension: The cable may be too loose or too tight. Adjust the tension at the handle control.
  - Verify connections: Ensure both ends of the cable are securely attached to the transmission and the handle control.
  - Inspect for kinks: A kinked or damaged cable will not operate smoothly. Replace if damaged.
- **Sticking or Jerky Operation:**
  - Lubrication: The cable might require lubrication.
  - Obstructions: Check for debris or obstructions along the cable's path.
- **Cable Disconnects:**
  - Improper installation: Re-check that the "Z" and "T" bends are correctly seated in their respective mechanisms.
  - Worn parts: The connection points on the mower itself might be worn, preventing the cable from staying attached.

## Specifications

| | |
|---|---|
| **Part Number** | 946-04206A, 746-04206A, 290-925 |
| **Cable Length** | 79-1/2 inches (approx. 201.9 cm) |
| **Conduit Length** | 76-1/4 inches (approx. 193.7 cm) |
| **End Type 1** | "Z" Bend |
| **End Type 2** | "T" Bend |
| **Material** | Copper (internal wire) |
| **Color** | Black |
| **Weight** | 6.8 ounces (approx. 193 grams) |

## Warranty and Support

This product is covered by the standard manufacturer's warranty. For specific warranty details, please refer to the product packaging or contact the seller directly. For technical support or further assistance, please reach out to the retailer or manufacturer where the product was purchased.

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