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› AlveyTech 4-Wire Twist Grip Throttle for Razor E-Scooters (Models E100, E125, E150, E175, E200, E300, RX200)

**AlveyTech T53-6105**

# AlveyTech 4-Wire Twist Grip Throttle Instruction Manual

For Razor E100, E125, E150, E175, E200, E300, and RX200 Electric Scooters

## 1. INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your AlveyTech single-speed, 4-wire twist grip throttle. This throttle is designed as a direct replacement part for specific Razor electric scooter models. Please read this manual thoroughly before installation and use to ensure proper function and safety.



*Image: The AlveyTech 4-wire twist grip throttle, compatible with various Razor electric scooters.*

## 2. COMPATIBILITY

The AlveyTech 4-wire twist grip throttle is compatible with the following Razor electric scooter models and their specified versions:

- **Razor E100/E125:** Versions 10 and above
- **Razor E100 Glow:** Versions 1 through 46 and above
- **Razor E150/E175/RX200:** Versions 1 and above
- **Razor E200:** Versions 24 and above
- **Razor E300:** Versions 20 and above

### Verifying Your Model Version Number

To ensure proper compatibility, it is crucial to verify your Razor product's model version number. This number is part of the product ID code.

1. Locate the product ID code on your Razor product. This code can typically be found on the battery cover or on the bottom of the frame.

2. Identify the 7th and 8th numbers in the product ID code. These two digits represent the version number of your Razor product (e.g., "01" indicates Version 1, "02" indicates Version 2, etc.).

# Verify Your Model Version Number

Model versions can be determined based on the product ID code on your Razor product.



**The product ID code can be found on the battery cover and/or on the bottom of the frame.**

The 7th and 8th numbers in your product ID code are the version number of your Razor product (e.g. "01" = **Version 1**, "02" = **Version 2**, etc.)

*Image: Example of a Razor product ID code, showing where to locate the version number.*

## 3. PRODUCT FEATURES

The AlveyTech 4-wire twist grip throttle offers the following features:

- **Single Speed Operation:** Provides consistent power delivery.
- **4-Wire Connector:** Ensures secure and reliable electrical connection.
- **50-inch (127 cm) Harness:** Offers ample length for various scooter models.
- **Plug-and-Play Design:** Facilitates easy installation without modification to existing hardware.
- **Durable Construction:** Built for consistent performance and long-term use.

Razor Single Speed

# 4-Wire Twist Grip Throttle

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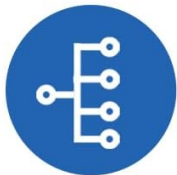
**50"**  
Throttle Wire



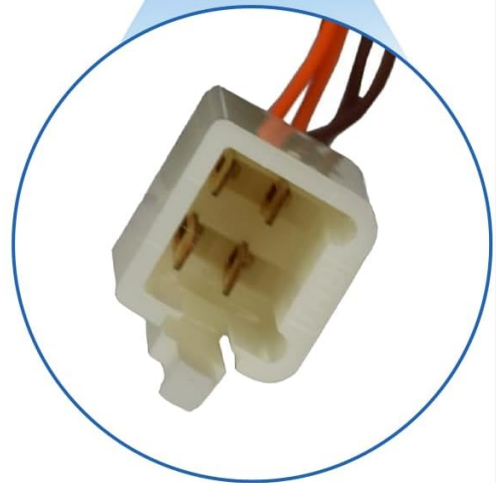
For **Razor E100/E125 Scooter Ver 10+,  
Pocket Mod Ver 13+, E300 Ver 20+, and More**

*Image: The AlveyTech 4-wire twist grip throttle, highlighting its 50-inch wire length.*

# 4-Wire Design



**Plug and Play** Design,  
Matches Existing Hardware  
**without Modification**



*Image: Detail of the 4-wire connector on the AlveyTech throttle, illustrating its plug-and-play design.*

## 4. INSTALLATION (SETUP)

This throttle is designed for a simple "plug and play" installation on compatible Razor scooters. No modifications to your existing hardware should be necessary.

### Required Tools:

- Screwdriver (appropriate size for your scooter's handlebar clamps)
- Wire cutters/strippers (optional, only if existing wiring needs repair)

### Installation Steps:

1. **Safety First:** Ensure the scooter is turned off and disconnected from any power source (charger).
2. **Access Existing Throttle:** Carefully loosen the screws on the handlebar clamp holding the old throttle in place. Slide the old throttle off the handlebar.
3. **Disconnect Wiring:** Locate the wiring connector for the old throttle. Gently disconnect it from the scooter's main wiring harness. Note the orientation of the connector if it is not keyed.
4. **Install New Throttle:** Slide the new AlveyTech twist grip throttle onto the handlebar. Position it comfortably for operation.
5. **Connect Wiring:** Connect the 4-wire harness of the new throttle to the scooter's main wiring harness.

Ensure the connection is firm and secure.

6. **Secure Throttle:** Tighten the screws on the handlebar clamp to firmly secure the new throttle in position. Do not overtighten.
7. **Test Functionality:** Reconnect the scooter to power (if applicable) and turn it on. Test the throttle's operation in a safe, open area before full use.

**Note: The throttle housing does NOT include charge indicator lights. If your original throttle had these, they will not be present on this replacement unit.**

## 5. OPERATION

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The AlveyTech 4-wire twist grip throttle provides smooth and precise control for your electric scooter. To operate:

- **Power On:** Ensure your scooter's main power switch is in the "ON" position.
- **Engage Throttle:** Gently twist the grip towards you (or as per your scooter's design) to engage the motor and accelerate.
- **Control Speed:** The amount you twist the grip will correspond to the speed of the scooter. Twist further for more speed, and release to slow down.
- **Braking:** Always use the scooter's brake lever to slow down or stop. Fully releasing the throttle will cut power to the motor, but braking is essential for controlled deceleration.

## Provides Smooth and Precise Throttle Control, for an Improved Riding Experience



*Image: A rider demonstrating the use of a twist grip throttle for an improved riding experience.*

## 6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your throttle and scooter.

- **Keep Clean:** Periodically wipe down the throttle grip and housing with a damp cloth to remove dirt and grime. Avoid using harsh chemicals.
- **Check Connections:** Occasionally inspect the wiring harness and connector for any signs of wear, fraying, or loose connections. Ensure the connection remains secure.
- **Smooth Operation:** Ensure the twist grip rotates smoothly without sticking. If it feels stiff, a small amount of silicone-based lubricant can be applied to the rotating parts, avoiding electrical components.
- **Handlebar Security:** Verify that the throttle remains securely clamped to the handlebar. Tighten screws if any looseness is detected.



# Enhanced Control

Built to Last, Providing **Consistent Performance** and Long-term Use

*Image: The AlveyTech throttle, designed for consistent performance and long-term use.*

## 7. TROUBLESHOOTING

If you encounter issues with your AlveyTech twist grip throttle, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Throttle not responding	Loose or disconnected wiring harness. Scooter power off.	Check all wiring connections. Ensure scooter is powered on.
Throttle feels stiff or sticky	Dirt or debris in the mechanism. Lack of lubrication.	Clean the throttle housing. Apply a small amount of silicone lubricant.

Problem	Possible Cause	Solution
Intermittent power delivery	Faulty wiring connection. Internal throttle issue.	Inspect wiring for damage. If problem persists, contact support for replacement.
Throttle does not fit handlebar	Incorrect throttle model for scooter.	Verify scooter model and version number against compatibility list.

If you are unable to resolve an issue using the troubleshooting guide, please contact AlveyTech customer support for further assistance.

## 8. SPECIFICATIONS

Feature	Detail
Model Number	T53-6105
Wire Configuration	4-Wire
Speed Control	Single Speed
Wire Length	50 inches (approximately 127 cm)
Item Weight	4.5 ounces (approximately 127 grams)
Package Dimensions	5.47 x 5.31 x 2.68 inches
Manufacturer	AlveyTech

## 9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your AlveyTech 4-wire twist grip throttle, please refer to the original purchase documentation or contact AlveyTech customer service directly. Details for contacting support can typically be found on the AlveyTech website or through your retailer.

AlveyTech is committed to providing high-quality parts and accessories. If you have any questions or require assistance, do not hesitate to reach out to our support team.