

PICO 5503PT

PICO 5503PT Ignition Switch User Manual

Model: 5503PT

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your PICO 5503PT Ignition Switch. Designed for universal fit, this switch offers Accessory-Off-Ignition-Start functionality, crucial for various automotive applications. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. SAFETY INFORMATION

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Always wear appropriate personal protective equipment (PPE) when handling and installing this product.

- Always disconnect the vehicle's battery before performing any electrical work to prevent electrical shock or short circuits.
- Ensure all wiring connections are secure and properly insulated to prevent arcing or fire hazards.
- Consult a qualified automotive technician if you are unsure about any installation steps.
- Do not exceed the specified current and voltage ratings (30 Amps, 12 Volts).
- Keep keys away from children.

3. PRODUCT OVERVIEW

The PICO 5503PT Ignition Switch is a robust, 4-position switch designed for reliable performance. It includes two keys for operation.

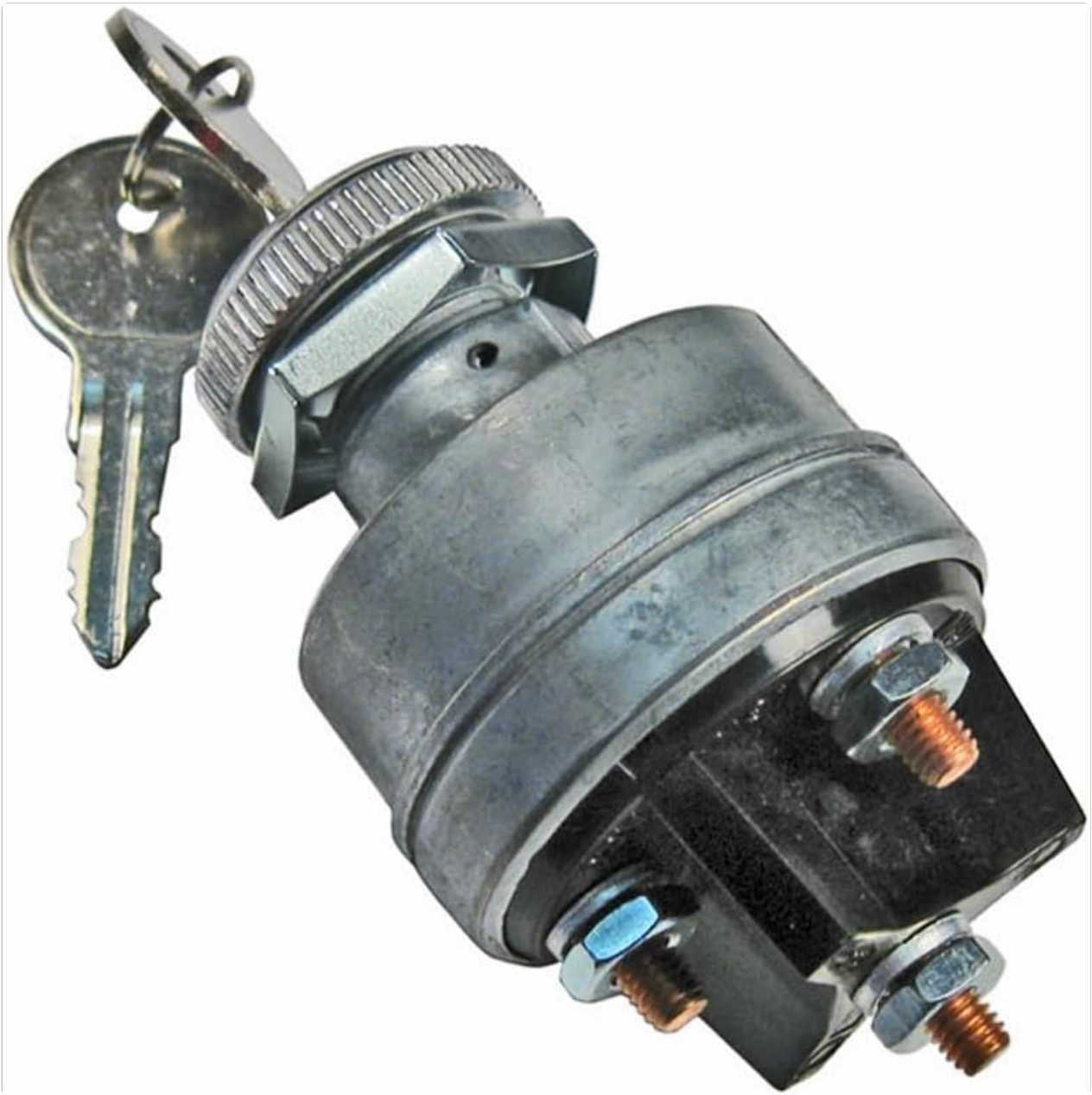


Figure 1: PICO 5503PT Ignition Switch. This image shows the main body of the ignition switch, made of metal, with a threaded shaft for mounting. Two keys are inserted into the keyhole. At the base, a black plastic housing contains three screw terminals with copper posts and nuts for electrical connections.

Key Features:

- **4-Position Operation:** Accessory, Off, Ignition, Start.
- **Universal Fit:** Compatible with a wide range of automotive applications.
- **Durable Construction:** Features brass or bronze contact material and an IP54 rating for protection.
- **Includes 2 Keys:** For convenience and security.

4. SPECIFICATIONS

Specification	Value
Model	5503PT
Operation Mode	Accessory-Off-Ignition-Start

Specification	Value
Current Rating	30 Amps
Operating Voltage	12 Volts
Connector Type	Screws
Terminal Type	Screw
Dimensions (L x W x H)	2 x 2 x 4 inches
Mounting Type	Panel Mount
Actuator Type	Ignition Key
Contact Material	Brass Or Bronze
International Protection Rating	IP54
Number of Positions	4
Color	Silver
Item Weight	6.1 ounces

5. SETUP AND INSTALLATION

5.1 Tools Required:

- Wrench set (for terminal nuts and mounting nut)
- Wire strippers/crimpers
- Electrical tape or heat shrink tubing
- Multimeter (optional, for testing connections)
- Drill with appropriate hole saw (if creating a new mounting hole)

5.2 Installation Steps:

1. **Disconnect Battery:** Before starting, disconnect the negative terminal of your vehicle's battery to prevent accidental short circuits.
2. **Prepare Mounting Location:** Identify a suitable panel for mounting the ignition switch. If replacing an existing switch, remove the old one. If installing new, drill a hole of appropriate diameter for the switch's threaded shaft.
3. **Mount the Switch:** Insert the threaded shaft of the PICO 5503PT switch through the mounting hole. Secure it in place using the provided nut on the back of the panel. Ensure it is tightened firmly but do not overtighten.
4. **Identify Terminals:** The switch typically has three or more terminals. While specific labeling may vary, common configurations are:
 - **BAT/B:** Battery (Constant 12V power input)
 - **ACC/A:** Accessory (Power for accessories like radio, wipers)
 - **IGN/I:** Ignition (Power for engine ignition system, fuel pump, etc.)
 - **SOL/S:** Start/Solenoid (Momentary power to starter solenoid)

Refer to your vehicle's wiring diagram for precise terminal identification if available.

5. **Wire Connections:** Connect the appropriate wires from your vehicle's harness to the corresponding screw terminals on the switch. Strip approximately 1/4 inch of insulation from each wire, insert it under the screw terminal, and tighten securely. Ensure no stray wire strands are present that could cause a short circuit.
6. **Insulate Connections:** After all wires are connected, ensure all exposed terminals and connections are properly insulated using electrical tape or heat shrink tubing.
7. **Reconnect Battery:** Reconnect the negative terminal of the vehicle's battery.
8. **Test Functionality:** Insert a key and test all switch positions (Accessory, Off, Ignition, Start) to ensure proper operation of all connected systems.

6. OPERATING INSTRUCTIONS

The PICO 5503PT Ignition Switch features four distinct positions, controlled by inserting and turning the key.

1. **Insert Key:** Insert one of the provided keys into the ignition switch.
2. **OFF Position:** This is the default position when the key is inserted or removed. All electrical systems are off, and the engine is not running.
3. **ACCESSORY (ACC) Position:** Turn the key one click clockwise from OFF. This position provides power to non-essential accessories such as the radio, power windows, or auxiliary outlets, without engaging the ignition system.
4. **IGNITION (ON) Position:** Turn the key two clicks clockwise from OFF (or one click from ACC). This position powers the vehicle's ignition system, fuel pump, and other essential engine components. All warning lights on the dashboard should illuminate. This is the position for normal engine operation.
5. **START Position:** From the IGNITION position, turn the key further clockwise against spring tension. This momentarily engages the starter motor to crank the engine. Release the key once the engine starts; it will spring back to the IGNITION (ON) position. Do not hold the key in the START position for more than 10 seconds to prevent damage to the starter motor.
6. **Removing the Key:** The key can only be removed when the switch is in the OFF position.

7. MAINTENANCE

- **Regular Inspection:** Periodically inspect the switch and its wiring connections for any signs of wear, corrosion, or loose connections.
- **Cleaning:** Keep the exterior of the switch clean and free from dirt, dust, and moisture. Use a dry, soft cloth for cleaning. Do not use harsh chemicals or abrasive cleaners.
- **Key Care:** Avoid forcing the key into the switch or using excessive force to turn it. If the key becomes difficult to turn, a small amount of graphite lubricant can be applied to the keyway.
- **Environmental Protection:** The IP54 rating provides protection against dust ingress and splashing water. However, avoid direct exposure to high-pressure water jets or prolonged submersion.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
---------	----------------	----------

Problem	Possible Cause	Solution
Engine does not crank when key is turned to START.	Dead battery, loose battery terminals, faulty starter motor, incorrect wiring to START terminal, faulty switch.	Check battery charge and connections. Verify starter motor function. Inspect wiring to the 'S' terminal. If all else fails, the switch may be faulty.
Accessories do not power on in ACC position.	Blown fuse, incorrect wiring to ACC terminal, faulty switch.	Check relevant fuses in the vehicle's fuse box. Verify wiring to the 'A' terminal.
Engine runs but dashboard lights/accessories flicker or cut out.	Loose wiring connections, intermittent fault in switch.	Inspect all wiring connections for tightness and corrosion. If problem persists, the switch may need replacement.
Key is difficult to turn or remove.	Debris in keyway, worn key, internal switch mechanism issue.	Try lubricating the keyway with graphite. Check for bent or damaged keys. If problem persists, switch may be damaged.

9. WARRANTY AND SUPPORT






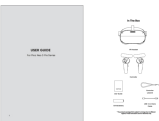
PICO products are manufactured to high standards. For specific warranty information, please refer to the documentation provided at the time of purchase or visit the official PICO website. For technical support or inquiries, please contact PICO customer service through their official channels.

PICO Contact Information:

- **Website:** www.pico.com
- **Customer Service:** Refer to the website for contact numbers or email support.



Related Documents - 5503PT

	<p>PICO 4 Ultra / PICO 4 Ultra Enterprise VR Headset Manual and Setup Guide</p> <p>Comprehensive guide for setting up and using the PICO 4 Ultra and PICO 4 Ultra Enterprise VR headsets, including software installation, PC connection via USB, controller settings, and SteamVR configurations.</p>
	<p>PICO 4 Ultra User Guide</p> <p>Comprehensive user guide for the PICO 4 Ultra series VR headset, covering setup, operation, safety guidelines, and product features. Learn how to use your PICO VR device effectively and safely.</p>
	<p>PICO 4 Series Safety & Warranty Guide</p> <p>Comprehensive safety, usage, care, and warranty information for the PICO 4 Series Virtual Reality (VR) headset from PICO.</p>
	<p>Pico Neo 3 VR Headset User Manual and Safety Guide</p> <p>Comprehensive user manual for the Pico Neo 3 VR Headset and Controllers, covering setup, operation, safety guidelines, product care, and regulatory information.</p>
	<p>Pico Neo 3 VR Headset User Guide</p> <p>Comprehensive user guide for the Pico Neo 3 VR headset, covering setup, operation, safety, and product care. Learn how to use your VR device safely and effectively.</p>
	<p>Pico Neo 3 Pro VR Headset User Guide</p> <p>Comprehensive user guide for the Pico Neo 3 Pro VR Headset and Controllers, covering setup, safety, product care, and regulatory information.</p>

Documents - PICO – 5503PT

no relevant documents