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› Spartan Mowers Key Switch Ignition Conversion Kit (Model 493-0152-00) User Manual

Spartan Mowers 493-0152-00

Spartan Mowers Key Switch Ignition Conversion Kit

MODEL: 493-0152-00

Instruction Manual

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the Spartan Mowers Key Switch Ignition Conversion Kit, Model 493-0152-00. This kit is designed to replace the electronic keypad console on specific Spartan Mowers models with a traditional physical turn-key ignition system. Please read this manual thoroughly before proceeding with installation or operation to ensure proper function and safety.

Safety Information

Always prioritize safety when working with machinery and electrical components. Failure to follow safety instructions can result in serious injury or damage to equipment.

- **Disconnect Power:** Before beginning any installation or maintenance, ensure the mower's battery is disconnected to prevent accidental starting or electrical shock.
- **Wear Protective Gear:** Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- **Read All Instructions:** Familiarize yourself with all steps in this manual before starting the installation.
- **Professional Assistance:** If you are unsure about any step or procedure, consult a qualified technician.
- **Secure Components:** Ensure all connections are secure and components are properly mounted before operating the mower.

Compatibility

This Key Switch Ignition Conversion Kit (Model 493-0152-00) is specifically designed for the following Spartan Mowers models:

- **RZ-HD models**
- **All RT carbureted models**

- All SRT carbureted models

This kit is intended for conversion from an existing electronic keypad console. It is not compatible with all Spartan Mowers models. Verify your mower's model and engine type (carbureted) before purchase and installation.

Package Contents

The Spartan Mowers Key Switch Ignition Conversion Kit includes the following components:

- Key Switch Ignition Console Assembly
- Ignition Key(s)



Image: The Spartan Mowers Key Switch Ignition Console Assembly, featuring the key slot and associated wiring for installation.

Installation Guide

Follow these steps carefully to install the Key Switch Ignition Conversion Kit:

1. **Prepare the Mower:** Ensure the mower is turned off, the parking brake is engaged, and the engine is cool. Disconnect the negative terminal of the battery to prevent accidental electrical discharge.
2. **Access the Console:** Locate the existing electronic keypad console on your Spartan Mower. Depending on your model, you may need to remove a cover or panel to access the wiring.
3. **Disconnect Existing Wiring:** Carefully disconnect all wiring harnesses from the electronic keypad. Take note of the connections or take pictures for reference if needed, although this kit is designed for direct replacement.

4. **Remove Electronic Keypad:** Unfasten and remove the electronic keypad assembly from its mounting location.
5. **Install New Key Switch Console:** Position the new Key Switch Ignition Console Assembly into the opening. Secure it using the provided hardware or the existing mounting points.
6. **Connect Wiring:** Connect the wiring harnesses from the mower to the corresponding ports on the new key switch console. This kit is typically a 'plug-and-play' design, meaning the connectors should match directly. Ensure all connections are firm and secure.
7. **Adjust Throttle Cable (if applicable):** Some installations may require minor adjustment to the throttle cable. If your previous setup included a throttle control integrated with the keypad, ensure the throttle cable is properly re-routed and clamped in its original position at the engine. Disconnecting the cable at the engine may simplify this step for some models. Verify smooth operation of the throttle.
8. **Reconnect Battery:** Once all components are securely installed and wired, reconnect the negative terminal of the battery.
9. **Test Functionality:** Proceed to the Operating Instructions section to test the new key switch ignition.

Operating Instructions

After successful installation, operate your Spartan Mower using the new key switch ignition as follows:

1. **Insert Key:** Insert the ignition key into the key switch.
2. **Engage Parking Brake:** Ensure the parking brake is engaged.
3. **Neutral Position:** Place the mower's drive levers in the neutral position.
4. **Choke (if applicable):** If starting a cold engine, apply the choke as per your mower's engine manual.
5. **Turn Key to START:** Turn the key clockwise to the 'START' position. Hold it until the engine starts, then release it to the 'ON' position. Do not hold the key in the 'START' position for more than 5 seconds at a time to prevent damage to the starter motor.
6. **Warm-up:** Allow the engine to warm up for a few moments before engaging the blades or driving.
7. **To Stop Engine:** Turn the key counter-clockwise to the 'OFF' position. Remove the key when the mower is not in use.

Maintenance

The Key Switch Ignition Conversion Kit is designed for durability and requires minimal maintenance. However, periodic checks can ensure its longevity and reliable operation:

- **Keep Clean:** Keep the key switch area clean and free from dirt, debris, and moisture. Use a dry cloth to wipe down the console.
- **Check Connections:** Periodically inspect the wiring connections to ensure they remain tight and free from corrosion.
- **Key Care:** Avoid using excessive force when inserting or turning the key. Do not use the key as a pry tool.
- **Storage:** When storing the mower for extended periods, remove the key from the ignition.

Troubleshooting

If you encounter issues with your new key switch ignition, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Engine does not crank when key is turned to START.	• Battery disconnected or low charge. • Loose wiring connections. • Parking brake not engaged. • Drive levers not in neutral.	• Check battery connections and charge. • Verify all wiring connections are secure. • Ensure parking brake is fully engaged. • Place drive levers in neutral.
Engine cranks but does not start.	• Fuel issues (empty tank, stale fuel). • Choke not applied (cold engine). • Spark plug issues.	• Check fuel level and quality. • Apply choke for cold starts. • Consult your mower's engine manual for further engine troubleshooting.
Key switch feels loose or wobbly.	Mounting hardware not fully tightened.	Tighten mounting screws or nuts securing the key switch console.

If the problem persists after attempting these solutions, contact customer support or a qualified service technician.

Specifications

Feature	Detail
Model Number	493-0152-00
Type	Key Switch Ignition Conversion Kit
Compatibility	Spartan RZ-HD, RT, and SRT carbureted models
Included Components	Key Switch Ignition, Ignition Key(s)
Material	Durable composite and metal construction

Warranty Information

This Spartan Mowers Key Switch Ignition Conversion Kit is covered by the manufacturer's standard warranty. Please refer to the warranty documentation provided with your original mower purchase or contact Spartan Mowers customer service for specific warranty terms and conditions. Keep your proof of purchase for warranty claims.

Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact Spartan Mowers customer support:

- **Website:** Visit the official Spartan Mowers website for support resources and contact information.
- **Authorized Dealers:** Contact your local authorized Spartan Mowers dealer for service and parts.

When contacting support, please have your mower's model and serial number, as well as the Key Switch Ignition Kit's model number (493-0152-00), readily available.