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Walfront 188F

Walfront 6-Wire Ignition Start Key Switch User Manual

Model: 188F

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Walfront 6-Wire Ignition Start Key Switch, model 188F. This switch is designed for 2.5-6.5KW 188F gas generators and serves as a direct replacement for a broken or malfunctioning ignition switch.

2. SAFETY INFORMATION

WARNING:

- Always disconnect power to the generator before attempting any installation, maintenance, or repair. Failure to do so can result in serious injury or death.
- Ensure proper wiring connections. Incorrect wiring can damage the generator or the switch.
- If you are unsure about any part of the installation process, consult a qualified technician.
- Keep children and unauthorized personnel away from the generator during operation and maintenance.
- Use appropriate personal protective equipment (PPE) such as gloves and eye protection.

3. PRODUCT OVERVIEW

The Walfront 6-Wire Ignition Start Key Switch is a robust component designed for reliable starting of compatible gas generators. It features a durable construction and a 6-wire connection system for comprehensive control.



Figure 3.1: Main components of the ignition switch, including the switch body, wiring harness, and two keys.

6 Wire Ignition Start Key Switch



Gas Generator Start Switch



Start Key



Switch



6 Wire Plug

Figure 3.2: Breakdown of the ignition switch components, highlighting the main switch unit, the included keys, and the 6-wire connector plug.

Key Features:

- Suitable for 2.5-6.5KW 188F gas generators.
- Connects to the generator via a 6-wire harness.
- Controls the starting mechanism of the gas generator.
- Designed as a direct replacement part.
- Features two operational gears (positions) and a 6-wire configuration.

4. SETUP AND INSTALLATION

This section outlines the general steps for replacing an existing ignition switch. Specific wiring diagrams may vary by generator model; always refer to your generator's service manual for precise wiring instructions.

Tools Required:

- Wrench or pliers (for mounting nut)
- Wire strippers/crimpers (if wiring modifications are needed)
- Multimeter (for verifying connections, optional)

Installation Steps:

1. **Safety First:** Ensure the generator is completely shut down and disconnected from any power source (e.g., battery, fuel supply).
2. **Access the Old Switch:** Locate the existing ignition switch on your generator. You may need to remove a control panel cover.
3. **Disconnect Wiring:** Carefully disconnect the 6-wire harness from the old switch. Note the orientation and color coding of the wires if possible, though this switch is designed for direct replacement.
4. **Remove Old Switch:** Unscrew or unfasten the mounting nut/collar holding the old switch in place and remove it from the panel.
5. **Install New Switch:** Insert the new Walfront ignition switch into the opening. Secure it with the mounting nut/collar.
6. **Connect Wiring:** Connect the 6-wire harness from the generator to the new switch's connector. Ensure the connection is secure and fully seated. The connector is designed to fit only one way.
7. **Verify Fit:** The switch has a diameter of approximately 4.2cm (1.65 inches) and a height of 4.5cm (1.77 inches). Ensure it fits properly in the designated space.



Figure 4.1: Physical dimensions of the Walfront ignition switch.

8. **Test Functionality:** Before reassembling the generator, briefly reconnect power (if safe to do so) and test the switch's operation. Turn the key to the "ON" and "START" positions to ensure proper engagement.
9. **Reassemble:** Once confirmed operational, reassemble any covers or panels removed during installation.

5. OPERATING INSTRUCTIONS

The Walfront Ignition Start Key Switch operates similarly to standard generator ignition switches.

1. **Insert Key:** Insert one of the provided keys into the ignition switch.
2. **"OFF" Position:** When the key is in the "OFF" position, the generator's ignition system is disengaged, and the engine will not start or run.
3. **"ON" Position:** Turn the key clockwise to the "ON" position. This activates the generator's electrical system, preparing it for starting.
4. **"START" Position:** Continue turning the key clockwise to the "START" position. Hold it in this momentary position until the generator engine starts. Release the key once the engine is running; it will spring back to the "ON" position.
5. **Shutting Down:** To turn off the generator, turn the key counter-clockwise from the "ON" position back to the "OFF" position.

6. MAINTENANCE

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

- **Connection Check:** Periodically inspect the 6-wire connector for any signs of corrosion, loose connections, or damage. Ensure it is securely plugged in.
- **Cleanliness:** Keep the switch free from dirt, dust, and moisture. Use a clean, dry cloth to wipe the exterior. Avoid using harsh chemicals or abrasive cleaners.
- **Key Operation:** Ensure the key turns smoothly in the lock cylinder. If it becomes stiff, a small amount of graphite lubricant can be applied to the key and inserted into the lock.
- **Environmental Protection:** If the generator is stored in a harsh environment, consider protecting the switch from excessive moisture or extreme temperatures.

7. TROUBLESHOOTING

If you experience issues with your Walfront Ignition Start Key Switch, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Generator does not start when key is turned.	Loose or incorrect wiring connection. Faulty switch. Generator issues (not switch related).	Check all 6-wire connections for security and proper seating. Refer to generator's wiring diagram. If connections are good, the switch may be faulty and require replacement. Ensure generator has fuel, oil, and battery power.
Key is stiff or difficult to turn.	Dirt or debris in lock cylinder. Internal wear.	Apply a small amount of graphite lubricant to the key and insert into the lock. Work the key back and forth. If problem persists, the switch may need replacement.
Key does not return to "ON" position after starting.	Faulty internal spring mechanism.	The switch is faulty and requires replacement.

If troubleshooting steps do not resolve the issue, contact customer support or a qualified technician.

8. SPECIFICATIONS

Attribute	Value
Model Number	188F
Suitable Power	2.5-6.5KW Gas Generator
Wire Configuration	6-wire
Operation Mode	ON-OFF
Contact Type	Normally Open
Connector Type	Wire Leads
Terminal Type	Spade

Attribute	Value
Circuit Type	6-way
Actuator Type	Mechanical Key
Contact Material	Brass Or Phosphor Bronze
International Protection Rating	IP00
Number of Positions	2 (ON/OFF/START)
Diameter	4.2 cm (1.65 inch)
Height	4.5 cm (1.77 inch)
Weight	72g

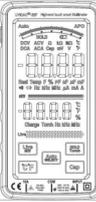
9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation provided with your original generator or contact the manufacturer of the Walfront Ignition Start Key Switch directly. As this is a replacement part, specific warranty terms may vary.

For additional assistance, you may visit the Walfront Store on Amazon: [Walfront Store](#)

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