

Sierra 18-5760

Sierra 18-5760 Power Pack Instruction Manual

For Johnson and Evinrude Outboard Engines

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1. INTRODUCTION

The Sierra 18-5760 Power Pack is a replacement component designed for use in specific Johnson and Evinrude outboard engine applications. This power pack is engineered to meet or exceed the performance standards of the original equipment part it replaces, ensuring reliable ignition system function.

Compatibility: This unit is interchangeable with the following part numbers:

- CDI: 113-2138, 113-2556
- GLM: 75390
- Johnson/Evinrude Outboard: 582138, 582400, 582556, 582642
- Mallory: 9-25001



Figure 1: The Sierra 18-5760 Power Pack. This image displays the compact black housing of the power pack with several electrical wires and connectors extending from it, including a multi-pin connector and a ring terminal.

2. SAFETY INFORMATION

WARNING: Working with marine electrical systems can be hazardous. Always disconnect the battery before performing any installation or maintenance. Consult a qualified marine technician if you are unsure about any procedure.

- Always wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the engine is turned off and cooled down before beginning work.
- Avoid contact with hot engine components.
- Keep all tools and work areas clean and free of debris.
- **Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

3. PACKAGE CONTENTS

The Sierra 18-5760 Power Pack package typically includes:

- 1x Sierra 18-5760 Power Pack

Inspect the package upon receipt to ensure all components are present and undamaged. If any items are missing or damaged, contact your supplier immediately.

4. SETUP & INSTALLATION

Installation of the Sierra 18-5760 Power Pack requires familiarity with marine electrical systems and outboard engine mechanics. It is recommended that installation be performed by a certified marine technician. Refer to your specific engine's service manual for detailed wiring diagrams and procedures.

General Installation Steps:

1. **Disconnect Battery:** Before starting, disconnect the boat's battery to prevent accidental electrical shorts or injury.
2. **Locate Existing Power Pack:** Identify the current power pack on your outboard engine. It is typically mounted near the ignition coils.
3. **Document Connections:** Carefully note or photograph the wiring connections to the existing power pack. Pay close attention to wire colors and their corresponding terminals.
4. **Remove Old Power Pack:** Disconnect all wires and mounting hardware from the old power pack.
5. **Mount New Power Pack:** Secure the Sierra 18-5760 Power Pack in the same location using the original mounting hardware. Ensure it is firmly attached.
6. **Connect Wiring:** Connect the wires to the new power pack according to the documentation made in step 3. Ensure all connections are clean, secure, and properly insulated. Double-check that green wires connect to green, orange to orange, etc., as per your engine's wiring diagram.
7. **Reconnect Battery:** Once all connections are verified, reconnect the boat's battery.
8. **Test System:** Start the engine and check for proper operation. Verify that the engine starts smoothly and runs correctly.

Note: Some users have reported instances where wire colors on replacement units may not perfectly match the original. Always cross-reference with your engine's wiring diagram and verify continuity if discrepancies are suspected.

5. OPERATION

The Sierra 18-5760 Power Pack is an integral component of your outboard engine's ignition system. It functions by receiving signals from the stator and trigger, then processing and sending precise electrical pulses to the ignition coils. These pulses are critical for generating the spark required to ignite the fuel-air mixture in the engine cylinders. Once correctly installed, the power pack operates automatically as part of the engine's normal function. There are no user-adjustable settings or operational controls on the power pack itself. Its primary role is to ensure consistent and reliable spark delivery for optimal engine performance.

6. MAINTENANCE

The Sierra 18-5760 Power Pack is a sealed electronic component and generally requires no routine maintenance. However, periodic inspection of its connections and surrounding area is recommended as part of your overall engine maintenance schedule.

- **Visual Inspection:** Periodically check the power pack and its wiring for any signs of corrosion, fraying, or damage. Ensure all connections remain tight and secure.
- **Cleanliness:** Keep the area around the power pack clean and free of dirt, oil, and moisture. Use a clean, dry cloth to wipe down the unit if necessary.
- **Environmental Protection:** While designed for marine environments, protecting all electrical components from excessive moisture and salt spray can extend their lifespan.

7. TROUBLESHOOTING

If your engine experiences ignition-related issues after installing or while using the Sierra 18-5760 Power Pack, consider the following troubleshooting steps. Always consult your engine's service manual for specific diagnostic procedures.

Common Issues and Solutions:

- **Engine Not Starting or Misfiring:**
 - Verify all wiring connections to the power pack are secure and correctly matched.
 - Check spark plugs for fouling or damage.
 - Test ignition coils for proper resistance and function.
 - Inspect the stator and trigger for proper output using a multimeter or specialized diagnostic tools.
 - Ensure the battery is fully charged and connections are clean.
- **Intermittent Spark:**
 - Check for loose or corroded connections at the power pack, coils, and ground points.
 - Inspect wiring for any breaks or insulation damage.
 - Test components (stator, trigger, coils) for intermittent failures, which can be challenging to diagnose.
- **Engine Runs Poorly at High RPMs:**
 - This could indicate a problem with the stator or trigger not providing adequate signal to the power pack at higher speeds.
 - Ensure the power pack is receiving sufficient voltage.

If troubleshooting does not resolve the issue, it is recommended to seek assistance from a qualified marine mechanic.

8. SPECIFICATIONS

Manufacturer	Sierra International
Brand	Sierra
Model Number	18-5760
Item Weight	9 ounces
Product Dimensions	0.39 x 0.39 x 0.39 inches
OEM Part Numbers	582400, 582556, 582642, OMC 582138
Interchangeable with	CDI 113-2138, 113-2556, GLM 75390, Mallory 9-25001
Fit Type	Universal Fit (for specified Johnson/Evinrude applications)

9. WARRANTY & SUPPORT

For specific warranty information regarding the Sierra 18-5760 Power Pack, please refer to the documentation provided with your purchase or contact Sierra International directly. Warranty terms typically cover manufacturing defects under normal use.

Customer Support: If you require technical assistance or have questions about your Sierra product, please contact Sierra International customer service or visit their official website for support resources.

Manufacturer Contact: [Sierra International Official Website](#) (Example link, actual link may vary)

ASK A QUESTION ABOUT THIS MANUAL

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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