

Sierra 18-5433

Sierra International 18-5433 Ignition Coil

Product Instruction Manual

PRODUCT OVERVIEW

The Sierra International 18-5433 Ignition Coil is a critical component designed for marine and automotive ignition systems. It is engineered to provide reliable spark generation for efficient engine operation. This coil requires an external resistor for proper function and is compatible with a range of engines, including MCM 4-cylinder, V-6, and V-8 engines with conventional ignition systems, as well as certain outboard applications.



Figure 1: The Sierra International 18-5433 Ignition Coil. This image shows the main body of the coil, which is cylindrical and black, along with the terminal cap and associated hardware (washers and nuts) for installation. A separate rubber boot is also visible, designed to protect the connection.

This ignition coil is also suitable for universal applications such as Atomic Four and Super Sabre engines. Its robust design ensures durability in demanding marine environments.

PACKAGE CONTENTS

Upon opening the package, verify that all components are present:

- 1 x Sierra International 18-5433 Ignition Coil
- Associated installation hardware (e.g., washers, nuts, terminal boot)

If any items are missing or damaged, please contact Sierra International customer support.

INSTALLATION AND SETUP

Important Safety Information: Before beginning any installation, ensure the engine is turned off and the battery is disconnected to prevent electrical shock or accidental engine start-up. Always wear appropriate personal protective equipment, including safety glasses.

1. **Preparation:** Locate the existing ignition coil. Note the wiring connections and their respective terminals. It is recommended to take a photograph for reference.
2. **Disconnect Wiring:** Carefully disconnect all wires from the old ignition coil. Pay attention to the polarity and terminal markings.
3. **Remove Old Coil:** Unscrew or unbolt the old ignition coil from its mounting bracket.
4. **Install New Coil:** Position the Sierra 18-5433 Ignition Coil in the mounting location. Secure it using the appropriate screws or bolts. The installation type is Screw-In or Bolt-On.
5. **Connect Wiring:** Reconnect the wiring to the new coil's terminals. Ensure correct polarity. This coil requires an external resistor; confirm it is properly integrated into the circuit. The primary resistance is 1550/450 Ohms, and secondary resistance is 9370/7650 Ohms.
6. **Secure Connections:** Ensure all connections are tight and secure. Use the provided terminal boot for protection if applicable.
7. **Final Check:** Double-check all connections and mounting. Reconnect the battery.

For specific engine wiring diagrams, consult your engine's service manual or a qualified marine technician.

OPERATING INSTRUCTIONS

The Sierra 18-5433 Ignition Coil functions as a direct replacement component within your engine's ignition system. Once correctly installed, its operation is integrated with the engine's normal starting and running procedures.

- Ensure all electrical connections are secure and free from corrosion.
- Verify that the external resistor, if required by your specific engine application, is correctly installed and functioning.
- Start the engine according to the manufacturer's instructions. The ignition coil will generate the high voltage necessary for spark plug firing.
- Monitor engine performance for smooth operation.

This coil is designed for use with conventional ignition systems found in MCM 4 Cyl, V-6 & V-8 Engines and some outboard applications.

MAINTENANCE

Regular inspection of your ignition system components, including the 18-5433 Ignition Coil, can help ensure optimal engine performance and longevity.

- **Visual Inspection:** Periodically inspect the coil for any signs of physical damage, cracks, or discoloration, which may indicate overheating or electrical issues.
- **Connection Check:** Ensure all electrical connections to the coil are clean, tight, and free from corrosion. Loose or corroded connections can lead to poor performance or coil failure.
- **Resistor Check:** If an external resistor is used, verify its condition and ensure it is within the manufacturer's specified resistance range. A faulty resistor can cause the coil to overheat.

- **Cleaning:** Keep the coil and surrounding area clean and free of dirt, oil, and moisture. Use a clean, dry cloth for wiping.

No internal maintenance is required for the ignition coil itself. If the coil is suspected to be faulty, it should be replaced.

TROUBLESHOOTING

If you experience issues with your engine's ignition system, the following table provides common symptoms and potential solutions related to the ignition coil.

Symptom	Possible Cause	Solution
Engine misfires or runs rough	Faulty ignition coil, poor electrical connection, incorrect external resistor.	Check coil connections. Test coil resistance (primary and secondary). Verify external resistor value. Replace coil if faulty.
No spark or weak spark	Completely failed ignition coil, open circuit in wiring, faulty external resistor.	Inspect all wiring for breaks. Test coil for continuity and resistance. Ensure power is reaching the coil. Replace coil if no spark is produced.
Coil overheating	Incorrect external resistor value (too low), short circuit in wiring, prolonged high current draw.	Verify the correct external resistor is used. Check for short circuits in the primary wiring. Ensure proper voltage supply.
Engine fails to start	No spark from coil, other ignition system component failure (e.g., points, condenser, distributor).	Confirm spark at the coil output. Check other ignition components. Consult a professional if the issue persists.

If troubleshooting steps do not resolve the issue, it is recommended to consult a qualified marine mechanic or automotive technician.

SPECIFICATIONS

Attribute	Value
Model Number	18-5433
Brand	Sierra International
Manufacturer	Teleflex
Primary Resistance	1.550 / 0.450 Ohms
Secondary Resistance	9,370 / 7,650 Ohms
Inductance	645 / 531 MHY
External Resistor Required	Yes
Connector Gender	Male
Installation Type	Screw-In or Bolt-On

Attribute	Value
Dimensions (L x W x H)	0.39 x 0.39 x 0.39 inches
Item Weight	1 pound (approx. 16 ounces)
Compatible Engines	MCM 4 Cyl, V-6 & V-8 Engines With Conventional Ignition & Some Outboard Applications, Atomic Four, Super Sabre
OEM Part Numbers	38547, 392-806529A1, CRUSADER 37068, MERCURY MARINE 32193A2, OMC 915735

WARRANTY INFORMATION

Sierra International products are manufactured to high standards. For specific warranty terms and conditions, please refer to the official Sierra International warranty policy available on their website or contact their customer service department. Generally, products are warranted against defects in materials and workmanship under normal use and service.

Keep your purchase receipt as proof of purchase for any warranty claims.

CUSTOMER SUPPORT

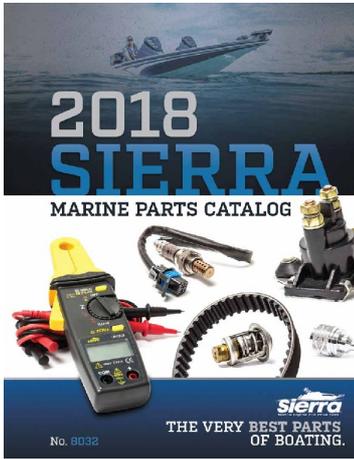
For technical assistance, installation questions, or warranty inquiries regarding your Sierra International 18-5433 Ignition Coil, please contact Sierra International customer support.

Visit the official Sierra website for contact information and additional resources: www.sierraparts.com

When contacting support, please have your product model number (18-5433) and purchase details readily available.

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This manual is for informational purposes only. Sierra International is not responsible for any damages or injuries resulting from improper installation or use of this product.



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