

## Sierra 18-7748

# Sierra International 18-7748 Carburetor Kit Instruction Manual

Model: 18-7748

## 1. INTRODUCTION

This manual provides instructions for the installation and maintenance of the Sierra International 18-7748 Carburetor Kit. This kit is designed for specific marine engine applications to restore carburetor function.

**Compatibility:** The Sierra 18-7748 Carburetor Kit is interchangeable with the following carburetor models and part numbers:

- Carter/Weber: 9600, 9662, 9663, 9665, 9666, 9772, 9773, 9774, 9776, 9777, 9780, 9782, 9665S, 9772SA, 9776S, 9776SA, 9776SB, 9779S, 9780S
- Mallory: 9-37639
- Mercruiser: 809064, 8M0120193, 808697

It is specifically designed for: 1987-1997 MCM/MIE/Tow Sports 350 Mag & 5.7L/LX Engines With 9665 & 9781 Weber Carbs, and 1990-1997 MCM/MIE 454 Mag 7.4L & 8.2L Engines.

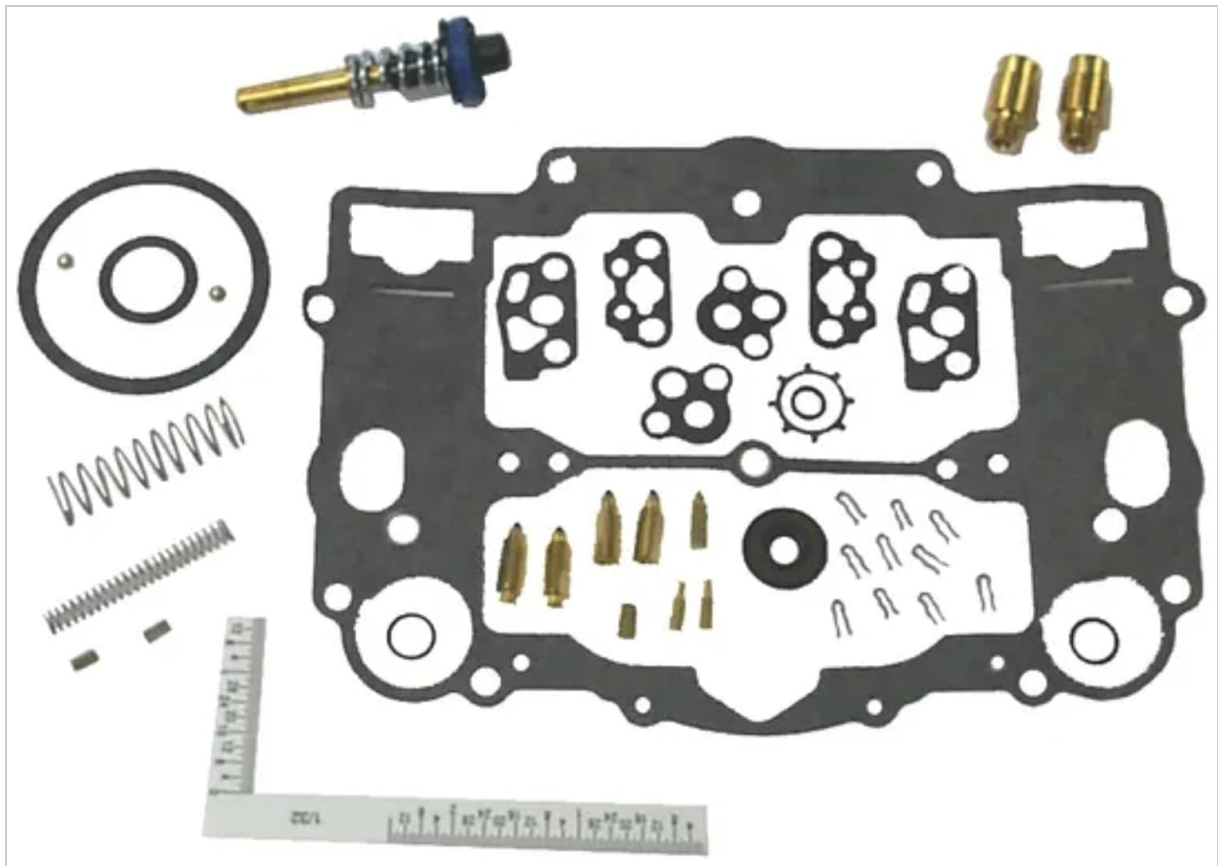
## 2. SAFETY INFORMATION

Always prioritize safety when working with fuel systems. Gasoline is highly flammable and its vapors are explosive. Ensure adequate ventilation and work in a well-lit area free from ignition sources.

- Disconnect the battery before beginning any work to prevent accidental engine starting or electrical shorts.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Have a fire extinguisher readily available.
- Dispose of old fuel and parts according to local regulations.
- If you are unsure about any step, consult a qualified marine mechanic.

## 3. PACKAGE CONTENTS

The Sierra International 18-7748 Carburetor Kit includes all necessary components for a comprehensive carburetor rebuild. Please verify all parts are present before beginning installation.



**Figure 3.1:** The complete Sierra International 18-7748 Carburetor Kit. It includes a main carburetor gasket, several smaller gaskets, various brass jets of different sizes, springs, a needle valve assembly with a blue cap, and other small components necessary for a carburetor rebuild. A small ruler is visible at the bottom for scale.

**Kit includes:**

- Main carburetor gasket
- Assorted smaller gaskets and O-rings
- Various brass jets
- Springs
- Needle valve assembly
- Other small components for rebuild

## 4. SETUP AND INSTALLATION

Installation of a carburetor kit requires mechanical aptitude and specific tools. If you are not confident in your ability to perform this procedure, it is recommended to seek professional assistance.

### 4.1. Preparation

1. Ensure the engine is cool and the battery is disconnected.
2. Close the fuel supply valve.
3. Gather all necessary tools, including screwdrivers, wrenches, pliers, and a clean workspace.
4. Have a container ready to catch any spilled fuel.

### 4.2. Disassembly of Old Carburetor

1. Carefully remove the air cleaner assembly.
2. Disconnect all fuel lines, vacuum lines, and electrical connections from the carburetor. Label them if necessary for reassembly.
3. Remove the carburetor mounting bolts and lift the carburetor from the engine.
4. Disassemble the carburetor, noting the position and orientation of all components. Take photographs if helpful.

5. Clean all carburetor components thoroughly with a suitable carburetor cleaner. Inspect for wear or damage beyond what the kit replaces.

### 4.3. Kit Installation and Reassembly

1. Replace all old gaskets, O-rings, jets, and the needle valve assembly with the new components from the Sierra 18-7748 kit.
2. Ensure all new parts are installed correctly and securely. Refer to your engine's specific service manual for detailed diagrams and torque specifications.
3. Reassemble the carburetor, ensuring all linkages move freely.
4. Mount the rebuilt carburetor onto the engine, using a new base gasket if provided. Tighten mounting bolts to specifications.
5. Reconnect all fuel lines, vacuum lines, and electrical connections.
6. Reinstall the air cleaner assembly.

## 5. OPERATING (POST-INSTALLATION)

After installation, perform the following checks before operating the engine:

- Open the fuel supply valve and check for any fuel leaks around the carburetor and fuel lines.
- Reconnect the battery.
- Start the engine and allow it to warm up.
- Check for proper idle speed and smooth operation. Adjust idle mixture and speed screws as necessary, referring to your engine's service manual for specific procedures.
- Monitor for any unusual noises, smells, or performance issues.

## 6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your carburetor:

- Periodically inspect fuel lines and connections for leaks or deterioration.
- Ensure the fuel filter is clean and replace it as recommended by your engine manufacturer.
- Use fresh, clean fuel. Stale or contaminated fuel can cause carburetor issues.
- If the engine is stored for an extended period, consider using a fuel stabilizer or draining the fuel system to prevent gumming and varnish buildup.

## 7. TROUBLESHOOTING

This section addresses common issues that may arise after carburetor kit installation.

Problem	Possible Cause	Solution
Engine will not start or starts with difficulty	Incorrect fuel mixture, clogged fuel line, improper choke operation, vacuum leak.	Check fuel supply, verify choke function, inspect for vacuum leaks, adjust idle mixture.
Rough idle or poor engine performance	Improper idle adjustment, vacuum leak, clogged jet, incorrect float level.	Adjust idle speed and mixture, check for vacuum leaks, re-inspect jets and float.
Fuel leaks from carburetor	Improperly seated gasket, loose fittings, damaged fuel line, incorrect float level.	Tighten fittings, replace damaged lines, re-check gasket installation and float level.

For persistent issues, consult your engine's service manual or a qualified marine technician.

## 8. SPECIFICATIONS

Feature	Detail
Brand	Sierra
Model Number	18-7748
Vehicle Service Type	Scooter (Note: Product description indicates marine engines, this may be a general classification)
Flange Type	Bolt On
Fuel Type	Gasoline
Recommended Uses For Product	Tow (Implies heavy-duty marine use)
OEM Part Number (Mercruiser)	809064
Item Weight	4.4 ounces
Package Dimensions	7.28 x 6.26 x 1.89 inches
UPC	808282244705


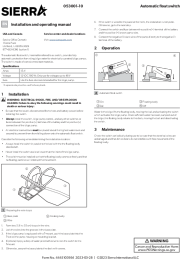
## 9. WARRANTY AND SUPPORT




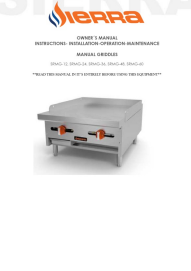
All Sierra parts qualify for and are covered under Sierra's industry-leading customer satisfaction warranty. For specific warranty details or technical support, please refer to the official Sierra International website or contact their customer service department.

**Manufacturer:** Sierra

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## Related Documents - 18-7748

 <p>The image shows the cover of the 'ENGINE DIAGNOSTICS - STATS' operating manual. It features a handheld diagnostic device with a screen and buttons, and the Sierra logo at the bottom.</p>	<p><a href="#">Sierra STATS Engine Diagnostics Operating Manual</a></p> <p>Operating manual for the Sierra STATS diagnostic tool, covering marine engine diagnostics, features, and support for major brands like Mercury, Yamaha, Suzuki, Honda, Volvo, Yanmar, Kawasaki, and BRP.</p>
 <p>The image shows the cover of the 'SIERRA' automatic float switch manual. It includes a diagram of the float switch installation on a bilge pump and the Sierra logo.</p>	<p><a href="#">Sierra Automatic Float Switch 053001-10: Installation and Operating Manual</a></p> <p>Detailed installation and operating guide for the Sierra Automatic Float Switch (Model 053001-10). Learn how to safely install, operate, and maintain this corrosion-resistant bilge pump switch for reliable boat bilge water management.</p>

	<p><a href="#">Sierra All-in-1 Fuel Tank Combo Package Installation Manual</a></p> <p>Installation guide for the Sierra All-in-1 Fuel Tank Combo Package (models 053701-10, 053703-10). This document provides detailed instructions, scope of delivery, recommended tools, and component identification for universal outboard engine fuel systems.</p>
	<p><a href="#">Leisure Suit Larry Hint Book - Sierra On-Line Game Guide</a></p> <p>Comprehensive hint book for Sierra On-Line's Leisure Suit Larry adventure game. Includes walk-throughs, maps, object locations, solutions, and FAQs to help players complete the game.</p>
	<p><a href="#">Sierra SRSP-18 Stock Pot Range Owner's Manual: Installation &amp; Operation Guide</a></p> <p>Comprehensive owner's manual for the Sierra SRSP-18 Stock Pot Range, detailing installation, operation, maintenance, and troubleshooting for commercial kitchens.</p>
	<p><a href="#">Sierra SRMG Series Manual Griddles Owner's Manual</a></p> <p>This owner's manual provides comprehensive instructions for the installation, operation, and maintenance of Sierra SRMG series manual griddles, including models SRMG-12, SRMG-24, SRMG-36, SRMG-48, and SRMG-60. Essential for qualified personnel.</p>



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[Sierra Marine Parts Catalog: Impellers, Ignition, Cooling, and Electrical Components](#)

Comprehensive catalog of Sierra marine parts including impellers, impeller kits, ignition system components, cooling system parts, electrical components, and more for various boat engine brands and models.

lang:nl **score:8** filesize: 28.25 M page\_count: 374 document date: 2016-12-14

