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## Evinrude 9.9 HP, 15 HP

# Guide to the 1978 Evinrude 9.9/15 HP Outboard Motor Service and Repair Manual

Official Factory OEM Manual Item No. 5394

## 1. INTRODUCTION TO THE SERVICE MANUAL

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This document serves as a guide to the official 1978 Evinrude Service and Repair Shop Manual, specifically designed for 9.9 horsepower (HP) and 15 HP outboard motor models. This manual (Item No. 5394) is a factory original equipment manufacturer (OEM) publication, providing comprehensive technical information necessary for proper service, maintenance, and repair procedures.

It is an essential resource for mechanics, technicians, and experienced boat owners seeking accurate and detailed instructions for these specific Evinrude models.



Image 1: Front cover of the 1978 Evinrude Service Manual. The cover displays the Evinrude logo, the title "Service Manual 1978," and specifies "9.9/15 HP Models." This image confirms the manual's applicability to the stated horsepower range and model year.

## 2. INTENDED AUDIENCE AND SCOPE

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This service manual is primarily intended for qualified service personnel. It assumes a basic understanding of mechanical and electrical principles. While comprehensive, it is not a basic instructional guide for novice users. Its scope covers detailed procedures for diagnosing, disassembling, repairing, and reassembling components of the 1978 Evinrude 9.9 HP and 15 HP outboard motors.

## 3. KEY SECTIONS AND CONTENT OVERVIEW

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The manual is structured to provide logical access to information, typically organized into chapters or sections covering specific systems or components. Common sections found in such a manual include:

- **General Information:** Safety warnings, torque specifications, special tools, and general service practices.
- **Engine:** Detailed procedures for cylinder head, block, crankshaft, pistons, and connecting rods.
- **Fuel System:** Carburetor overhaul, fuel pump service, fuel line inspection, and troubleshooting fuel delivery issues.
- **Ignition System:** Magneto, coils, spark plugs, timing adjustments, and electrical troubleshooting.
- **Lower Unit/Gearcase:** Disassembly, inspection, repair, and reassembly of gears, bearings, and seals.
- **Cooling System:** Water pump service, thermostat inspection, and cooling passage maintenance.
- **Electrical System:** Wiring diagrams, charging system components, and electrical component

testing.

- **Troubleshooting:** Diagnostic charts and procedures for common operational problems.
- **Maintenance:** Scheduled service intervals and routine inspection points.



Image 2: Inside front page of the Evinrude Service Manual. This page features the "Evinrude first in outboards" slogan and the manufacturer's address, confirming its authenticity as an official publication.

## 4. SPECIFICATIONS AND TECHNICAL DATA

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The manual includes critical specifications such as fastener torque values, clearances, fluid capacities, and electrical resistance values. These precise measurements are vital for ensuring components are assembled correctly and operate within manufacturer tolerances. Always refer to the specific tables and diagrams within the manual for accurate data.

## 5. USING THE MANUAL EFFECTIVELY

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To maximize the utility of this service manual:

- **Read Safety Warnings:** Always begin by reviewing all safety precautions and warnings before starting any procedure.
- **Identify Your Model:** Ensure the manual's coverage (1978, 9.9 HP, 15 HP) matches your specific outboard motor.
- **Gather Tools:** Have all necessary standard and special tools, as specified in the manual, ready before beginning work.
- **Follow Step-by-Step Instructions:** Adhere strictly to the sequence of steps provided for disassembly, inspection, repair, and reassembly.

- **Refer to Diagrams:** Utilize the exploded views, wiring diagrams, and illustrations to understand component relationships and routing.

## 6. IMPORTANT CONSIDERATIONS

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- **Safety First:** Always disconnect the battery and ensure the engine cannot accidentally start before performing any service. Wear appropriate personal protective equipment.
- **Genuine Parts:** For optimal performance and longevity, it is recommended to use genuine Evinrude replacement parts.
- **Environmental Responsibility:** Dispose of all fluids and waste materials according to local environmental regulations.

## 7. PUBLISHER INFORMATION

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This manual was published by EV INC. For further inquiries regarding official Evinrude publications, refer to the contact information typically found within the manual or through authorized Evinrude dealers.